Econ 3402: Statistics for Business I

University of West Georgia Summer 2014

Instructor:  Dr. Heather R. Bono
Contact Info:  hrichard@westga.edu
Office:  RCOB 1219
Office Hours:  M-F 8:00am-10:00am & by appointment

Course/Section/Time  Location
Econ 3402-02, M-F 10:00am-12:15pm  RCOB 1308

Required Text:  The Practice of Statistics for Business and Economics (3rd edition)
  by Moore, McCabe, Alwan, Craig, and Duckworth

Prerequisites:  Prerequisites: MATH111 or MATH 1113, CISM 2201 and a 2.0 minimum GPA.
  You also need to have access to a computer and you must have access to the internet.

Course Learning Objectives:
The overall objective of this course is for you to learn basic economic concepts and more about
the economic system in which we live. To this end, upon completion of the course a student will
be able to:
1. construct and interpret tabular and graphical methods of presenting qualitative and quantitative
data (LG2, LG3, LG10)
2. construct and interpret summary and numerical measures of location, variability, and
  association for the sample and the population (LG2, LG3, LG10)
3. apply basic probability concepts, expected value and variance to a variety of di_erent business
  applications (LG2, LG6, LG10)
4. use discrete and continuous probability distributions and sampling distributions in a variety of
  business applications (LG2, LG3, LG6, LG10)
5. construct and interpret interval estimates and hypothesis tests (LG2)
6. estimate regression models, evaluate the results of regression models, and use the results for
  prediction and forecasting (LG2, LG3, LG6, LG10)
7. Use Microsoft Excel to generate descriptive statistics and perform regression and correlation
  analysis (LG2, LG3, LG6, LG10)

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/index_12904.php).
**Evaluation:** There will be three exams offered during the semester – the exam with the lowest grade will be dropped. *Note: The final will be cumulative.* In addition, two problem sets and 7 online quizzes (administered through the quiz application in CourseDen) will be given. The lowest quiz grade will be dropped.

Grading is based on your performance on the following,

- Exam 1
- Exam 2
- Final Exam

\[
\text{\{Exam 1, Exam 2\}} \quad 40\% \text{ each (After 1 dropped)}
\]

- Problem Sets (Average) \quad 15\%
- Online Quizzes (Average) \quad 5\% \text{ (After 1 dropped)}

\[
\text{Total} \quad 100\%
\]

Class notes, online quizzes, syllabus, and other materials can be found on CourseDen. All grades will be recorded on the grade tab on CourseDen. Please notify me if there are any errors.

**Extra Credit:** A quiz over the class syllabus will be given via the quiz tab on CourseDen. It must be completed by **July 3, 2014 at 5:00 PM.** You will be given only 1 attempt, and there is **NO MAKE-UP** for any reason. Students who complete the assignment with a grade of 100 will receive 2 bonus points to be added to their final average. Students who complete the assignment with a grade of 70 to 99 will receive 1 bonus point to be added to their final average. Students who complete the assignment with less than a grade of 70 will receive 0 bonus points added their final average. There may be other opportunities for bonus points throughout the semester. If so, these will be announced in class.

**Attendance:** Attendance is not mandatory but highly recommended. Attendance will be checked everyday for my records, but will not be used as a calculation in your final average. You will not be dropped from the class for not attending. It is the student’s responsibility to withdraw from the class by contacting the registrar’s office directly. **The last day to withdraw with a grade of “W” is July 12, 2014.** 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).

**Class Policies:**

- Food and drinks are not allowed in any of the classrooms.
- Turn off or silence cell phones before coming into class.
- Be on time. It is distracting to me as well as other students when you come in after the lecture has already begun.
- If you need to leave class early, please sit close to the door so that you may exit with as little disruption as possible.
**Exams**

- You must be in class on time to take the in-class exams.
- Exams will be a combination of multiple choice, true-false and short answer computations, and you will need to purchase a Scantron Form 882-E for each exam.
- Each exam will have a 5-point bonus question so that each exam is worth 105 points (out of 100).
- You will be allowed to use a formula sheet on the exams. This will need to be turned in with the exam. Failure to do so will result in an automatic 15 point grade deduction.
- The exams will be based on the assigned readings, lectures, class discussions and worksheets, problem sets, and quizzes.
- There are **NO** make-ups for the exams, **EXCEPT** for university approved excuses, such as severe/contagious illnesses, death in the family, hospitalization or university sanctioned events where you are a required participant, jury duty, etc. Work is not a valid excuse for missing a scheduled exam. You **MUST** provide appropriate documentation and notify me by the end of the testing day via my WestGa email address (do not contact me about missed exams through CourseDen). Only students with appropriate documentation will be allowed to make-up a missed exam. All makeup exams must be taken at 8:00 AM on one of the next two calendar days. If you cannot make the exam make-up or you do not have appropriate documentation for the missed exam, you will receive a grade of zero for the exam, and it will count as your exam to drop. **NOTE:** Only 1 missed exam with a grade of zero will be dropped. For example, if you receive a grade of zero on both exams 1 and 2 and you take the final exam, only exam 1 will be dropped. If you believe that circumstances will cause you to miss more than one exam, you need to drop this class.
- The final exam is optional for students who have taken exams 1 and 2. If you choose not to take the final exam and you have taken exams 1 and 2, the final exam will be the exam that is dropped in your final average calculation. The lowest exam will be dropped for students who take all three exams.
- All exams will be given in class. You must be on time in order to take any exam. If you are more than 10 minutes late, you may be denied access. Please allocate plenty of time for handling parking or traffic delays.
- On test day, phones, music devices, and any other electronic device or auxiliary devices (ex: headphones, Bluetooth headsets, cameras, etc.) are not allowed at your desk and must be left at the front of the classroom. 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. Cell phones or other electronic devices (laptops, tablets, etc.) may not be used as calculators.

**Problem Sets**

- Problem sets must be turned in on time and when asked for in class. **No late work will be accepted.** Solutions to problem sets will be posted on course den after class on the due date.
- If you are unable to attend class, you must make prior arrangements to turn in your problem sets **BEFORE** the due date. Emailed problem sets will **NOT** be accepted. Requests to turn in problem sets after the deadline will be denied NO MATTER THE
REASON. Any student who does not turn in the problem set on or before the scheduled due date will receive a zero for the assignment.

Quizzes
- Quizzes will be given via the quiz tab in CourseDen. Each quiz will consist of 10 multiple choice and/or true-false questions. You will have two days to complete each quiz. All quizzes will open at 8:00 AM on the scheduled open date and will close at 11:59PM on the scheduled close date. Specific open and close dates/times can be found on the tentative class schedule at the end of this syllabus and are posted on the calendar in CourseDen. I will also provide verbal reminders in class of the due dates and times as well as information regarding the material to be covered on each. You will have 90 minutes for each quiz attempt, and you will have a maximum of 5 attempts for each quiz. Only the highest score out of all of your attempts will count towards your final grade.
- Quizzes will not be reopened for any reason once the due date/time has passed. **Any missed quizzes may not be made up NO MATTER THE REASON.**
- 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 your puppy chews up your modem, 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 to CourseDen will result in missed deadlines and forfeited points.
- If you are experiencing technical issues with CourseDen (not your computer/ISP) that are preventing you from submitting your quiz, you have two responsibilities: 1) immediately 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. 2) Notify me via my WestGa email address (do not do this through the email offered in CourseDen) after you contact the Help Desk.
- Your submitted responses with correct answers will be released for your review after you have completed the attempt. Notify me in writing within two calendar days of the closing date/time if there are any errors with the grading of your quiz attempts.

Academic Dishonesty: Cheating on any test will result in a zero on the test, an F in the course and will be reported to Student Services for appropriate disciplinary action by the University. Cheating on any assignment or exercise will result in a zero on the assignment or exercise, the lowering of the student’s final grade in the course by one letter grade, 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.

The following actions will be considered violations of the honor code in this course:
- Talking to classmates during tests.
- Looking at other students' exams.
- Texting or emailing during tests.
- Borrowing/sharing calculators during tests.
- Using cheat sheets or writing notes on desks or scantrons.
- Having someone else complete your online quizzes for you.

**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/counseling/index_8884.php.

**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.

**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.

**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.
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<thead>
<tr>
<th>Date</th>
<th>Chapter</th>
<th>Topic</th>
<th>Note</th>
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<tbody>
<tr>
<td>Mon. 06/30</td>
<td>1</td>
<td>Introduction/Examining Distributions</td>
<td>Quiz 1 available at 10 AM</td>
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<tr>
<td>Tues. 07/01</td>
<td>1 &amp; 2</td>
<td>Examining Distributions-continued, Examining Relationships, and</td>
<td>Quiz 1 closes at 11:59 PM</td>
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<td>Quiz 2 available at 8 AM</td>
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<tr>
<td>Wed. 07/02</td>
<td>2 &amp; 3</td>
<td>Examining Relationships-continued, and Producing Data</td>
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<tr>
<td>Thurs. 07/03</td>
<td>3 &amp; 4</td>
<td>Producing Data-continued, Probability and sampling distributions,</td>
<td>Syllabus Quiz due by 5:00 PM</td>
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<td>and Quiz 2 closes at 11:59 PM</td>
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<td>Fri. 07/04</td>
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<td>No Class - Holiday - Independence Day</td>
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<tr>
<td>Mon. 07/07</td>
<td>4 &amp; 5</td>
<td>Probability and Sampling Distributions- continued, and Probability</td>
<td>Quiz 3 available at 8 AM</td>
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<td>Theory</td>
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<tr>
<td>Tues. 07/08</td>
<td>5</td>
<td>Probability Theory-continued and Quiz 3 closes at 11:59 PM</td>
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<tr>
<td>Wed. 07/09</td>
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<td>Overflow/Review for Exam 1</td>
<td>Problem Set 1 Due at beginning of class</td>
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<tr>
<td>Thurs. 07/10</td>
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<td>Exam 1: Chapters 1-5</td>
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<tr>
<td>Fri. 07/11</td>
<td>6</td>
<td>Introduction to Inference Quiz 4 available at 8 AM</td>
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<tr>
<td>Mon. 07/14</td>
<td>6 &amp; 7</td>
<td>Introduction to Inference-continued, Inference for Distributions,</td>
<td>Quiz 4 closes at 11:59 PM</td>
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<td>and Quiz 4 closes at 11:59 PM</td>
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<tr>
<td>Tues. 07/15</td>
<td>7 &amp; 8</td>
<td>Inference for Distributions-continued, and Inference for Proportions</td>
<td>Quiz 5 available at 8 AM</td>
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<tr>
<td>Wed. 07/16</td>
<td>8 &amp; 9</td>
<td>Inference for Proportions-continued, and Inference for Two-way</td>
<td>Quiz 5 closes at 11:59 PM</td>
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<td>Tables and Quiz 5 closes at 11:59 PM</td>
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<tr>
<td>Thurs. 07/17</td>
<td>9 &amp; 10</td>
<td>Inference for Two-way Tables-continued, and Inference for Regression</td>
<td>Quiz 6 available at 8 AM</td>
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<td>Quiz 6 closes at 11:59 PM</td>
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<td>Fri. 07/18</td>
<td>10 &amp; 11</td>
<td>Inference for Regression-continued, Multiple Regression</td>
<td>Quiz 6 closes at 11:59PM</td>
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<tr>
<td>Mon. 07/21</td>
<td>11</td>
<td>Multiple Regression- continued</td>
<td>Quiz 7 available at 8 AM</td>
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<td>Tues. 07/22</td>
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<td>Overflow/Review for Exam 2</td>
<td>Quiz 7 closes at 11:59 PM</td>
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<td>Quiz 7 closes at 11:59 PM</td>
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<tr>
<td>Wed. 07/23</td>
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<td>Exam 2: Chapters 6-11</td>
<td>Problem Set 2 due at the beginning of class</td>
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<td>Thurs. 07/24</td>
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<td>No Class – Reading/Study Day</td>
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<td>Fri. 07/25</td>
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<td>Optional Comprehensive Final Exam/Make-up Exam 10:00am -12:00pm</td>
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**Note:** This schedule provides a general plan for the course. However, deviations may be necessary depending upon the progress of the class. Changes will be announced in class and updated on the course calendar on Course Den.