Course Description:
This course investigates the applications of statistics in business. Topics include methods of presenting data, numerical measures and correlation, probability theory and probability distributions, sampling distributions, estimation, and hypothesis testing.

Expected Learning Objectives:
Upon completion of this course, students are expected to have a basic understanding of:
- Recognize the role that quantitative models play in the decision making process (LG2)
- Be able to transform a rather general problem into a well-defined problem that can be solved quantitatively (LG2)
- Be able to apply basic quantitative models to business situations (LG2)
- Demonstrate the ability to collect and input data into basic quantitative models (LG2, LG3)
- Be able to solve models "by hand" and with specialized computer software, spreadsheets and graphical packages (LG2, LG3)
- Describe specific quantitative models including decision analysis, linear programming, and others applicable to business decision making (LG2)

Note: A complete list of expected learning goals (LG) for the Economics Department can be found at the department website http://www.westga.edu/~econ/lg_assessments.htm

Textbook: QUANTITATIVE METHODS FOR BUSINESS
By Anderson, Sweeney, and Williams, 11th Edition. The 11th Edition is the current edition, the 10th or even 9th edition will do just fine and they are probably much cheaper. Make sure that the exercises assigned are the same.

Course Outline:
- Chapters 1, 4, 5-9
- Introduction
- Decision Analysis
- Forecasting
- Linear Programming
**Attendance:** Attendance is strongly recommended for each class. Students are responsible for all announcements and material covered in class. Those not attending class regularly will receive little consideration in regard to individual instruction, borderline grade decisions, etc. Classes will begin promptly at the scheduled time.

**Tests:** During the semester, you will take one mid-term and a final exam. The dates and coverage for each test are listed below. All necessary formulas and/or tables will be provided by the instructor (no need for a cheat sheet). Test questions will be based on the concepts and exercises discussed in class and assigned in the textbook. Maximum time allowed per test will be two hours. To every test, you should bring a calculator (preferably a statistical calculator) and a scantron (school of business, green 882-E). Each test is worth 40% of your final grade.

**Make-up Policy:** If you miss any test and have a verifiable and justifiable written excuse such as a medical note or police report, you might take a make-up test on the next day of classes. If you don’t have a valid excuse or fail to contact your instructor, your grade will be zero. Make-up tests are based on exercises only (no multiple choice questions).

**Clicker Questions:** During the term, you will be required to participate by responding to clicker questions related to current material. Each answer you respond will receive a value of one point. Each right answer will count for 1.25 points. After dropping the lowest grade, your clicker average grade will count for 15% of the final grade in the course. If you forget to bring the clicker, that will be your dropped grade. No exceptions.

**Linear-Programming Assignment:** Based on the material learned in chapters 7 and 8, you will be assigned a linear-programming exercise to be solved using Excel. The instructions and specific exercise will be provided at least one week before the end of the course. This assignment is worth 5% of your final grade.

**Final Exam:** The final exam will be based on chapters 4, 6-8. Following UWG policy, the allowed time is up to two hours. Its format will be identical to that of the mid-term.

**Cell Phones:** As soon as class starts, all cell phones must be turned off and placed away from your desk inside your bags or pockets. Cell phones cannot be used as calculators both during regular classes and examinations. Every session will have two five-minute breaks, so you can use your phones, go to the bathroom, etc. If you use your cell phone during class, you will get a zero clicker grade on that day without any warning. There are no exceptions to this rule.

**Laptops:** Portable computers (laptops) are not allowed or must be turned off during class. No exceptions.

**Cheating:** Academic dishonesty on any exam or in-class assignment done alone will result in a zero on the exam, an F for the course, 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 appeals procedures regarding academic dishonesty should refer to the UWG Undergraduate Catalog.

**Grade Distribution by Activity:**

<table>
<thead>
<tr>
<th>ACTIVITY/MATERIAL</th>
<th>DATE</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clicker Questions</td>
<td>Daily</td>
<td>15%</td>
</tr>
<tr>
<td>Linear-programming Exercise</td>
<td>6/27/2011</td>
<td>5%</td>
</tr>
<tr>
<td>Mid-Term Exam (material since day 1)</td>
<td>6/16/2011</td>
<td>40%</td>
</tr>
<tr>
<td>Final (Chapters 4, 6-8)</td>
<td>6/30/2011 (12:30pm)</td>
<td>40%</td>
</tr>
</tbody>
</table>

**Disruptive Behavior:** Arriving late, leaving early, yawning loud, talking during lectures, using profane language, and receiving cell phone calls or text messages while in class, are some of the most common ways students may interrupt a class and encourage others to do the same. If you consistently show evidence of this behavior, the instructor will give you first a verbal warning. If the behavior continues, you will be dropped from the course with an F. **Cell phones, laptops or any other devices with internet access must be turned off as soon as class starts.**

**Course Outline and Method of Instruction:** All sections of Chapters 1, 2, 4-8 and selected exercises from Chapter 9. However, deviations may occur. The material will be covered using a lecture approach emphasizing student participation solving problems.

**Final Numerical and Letter Grade (strict policy, no exceptions):**

<table>
<thead>
<tr>
<th>Numerical</th>
<th>Letter</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 – 59.99</td>
<td>F</td>
</tr>
<tr>
<td>60 – 69.99</td>
<td>D</td>
</tr>
<tr>
<td>70 – 79.99</td>
<td>C</td>
</tr>
<tr>
<td>80 – 89.99</td>
<td>B</td>
</tr>
<tr>
<td>90 – 100</td>
<td>A</td>
</tr>
</tbody>
</table>