

**Economics 3406**  
**Statistics for Business II Sec 01**  
**SUMMER 2017**  
**MTWRF: 10:00 – 12:15**  
**Miller Hall 2327**

**Dr. Adrian Austin**  
**1315 Miller Hall**  
**Phone: (678) 839-4773**  
**E-mail: Please use the CourseDen mail tool**  
**Office Hours: MTWRF 08:00 – 10:00**

**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, linear regression and forecasting.

**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 linear regression and others applicable to business decision making (LG2)

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](http://www.westga.edu/business/undergrad_learning_goals.php)

**Text:**

Statistical Techniques in Business and Economics  
By Lind, Marchal, and Wathen, 16<sup>th</sup> Edition

We will use the McGrawHill Connect portal that goes along with this text book.

There are three ways to gain access to this portal

- i. You can buy a new hardcopy of the book and use the access code within. Once you have the access code, please see the instruction video on how to sign up at <http://screencast-o-matic.com/watch/cD1eYciXuU>.

- ii. If you bought two semester access for 3402 (or 3406) in the spring semester, that access is still good for this semester. Please see the instruction video on how to sign up at <http://screencast-o-matic.com/watch/cD1eYciXuU>.
- iii. You can buy the textbook online and access to connect at the specially reduced (for UWG) price for two semesters. please see the instruction video on how to sign up at <http://screencast-o-matic.com/watch/cD1eYciXuU>.

The URL for our course on Connect is  
<http://connect.mheducation.com/class/a-austin-340601-may-31-2017---june-26-2017>

### Course Structure:

<b>Review of basic statistical measures</b>	Chapter 3
<b>Review of Continuous Distributions</b>	Chapter 7
<b>Review of Statistics</b>	Chapter 8
<b>Hypothesis Testing &amp; Confidence Intervals</b>	Chapters 9 – 11
<b>Analysis of Variance</b>	Chapter 12
<b>Bivariate Linear Regression</b>	Chapter 13
<b>Multivariate Linear Regression</b>	Chapter 14
<b>Other Topics (time permitting)</b>	

### Grading:

- There are three midterms and a final exam. Each midterm is worth 20%. The lowest score on the midterms will be dropped. The final exam is worth 20% and is cumulative.
- The other 40% of your grade will come from LearnSmart Assignments (10%), Homework Exercises (15%) and in-class work (15%).

Tuesday, June 6, 2017	EXAM 01
Tuesday, June 13, 2017	EXAM 02
Tuesday, June 20, 2017	EXAM 03
Monday, June 26, 2016	FINAL

**Grading Scale:**

90% - 100%	A
80% - 89%	B
70% - 79%	C
60% - 69%	D
< 60%	F

**Learn Smart Exercises:**

LearnSmart is an unparalleled, intelligent learning system based on cognitive mapping that diagnoses students' knowledge of a particular subject then creates an individualized learning path geared towards student success in the course. It offers individualized assessment by delivering appropriate learning material in the form of questions at the right time helping students attain mastery of the content. As a student works within the system, LearnSmart develops a personal learning path adapted to what the student has learned and retained. LearnSmart is also able to recommend additional study resources to help the student master topics. You can find instructions for LearnSmart here <http://screencast-o-matic.com/watch/cD1elyiXl4>

The LearnSmart exercises can be found at the Connect portal. There will be 9 exercises (one per chapter) worth 100 points each. The lowest score will be dropped.

**Homework Assignments:**

The Homework Assignments can be found at the Connect portal. You can do the homework exercises an unlimited number of times and individual feedback is provided. These homework assignments are designed to help you implement the concepts that you have learned.

The Homework Assignments can be found at the Connect portal. The Homework Assignments are worth 100 points each. The lowest score will be dropped.

**In Class Assignments:**

There are several assignments that you will be asked to do in class. These assignments are worth 100 points each. The lowest two scores will be dropped.

**June 9<sup>th</sup> - 15<sup>th</sup>**

I will be at a conference during the above time period. Content for those days (including in-class assignments) will be delivered online. Your second exam will be held on campus in the classroom on Tuesday June 13.

**All due dates will be announced in class and on CourseDen. Please pay attention to all due dates since no late work is accepted.**

**Attendance:**

Attendance is strongly recommended. (If you do not come to class on the first day, you may be dropped from the roll).

**To get the most out of this class:**

- Pre and post read all assigned readings.
- Spend at least one hour per class hour studying the material.
- Come to class and ask questions. If you are having difficulty with the material, come to my office hours. PLEASE DON'T WAIT UNTIL YOU ARE COMPLETELY LOST.
- Study Hard
- Play Hard
- Get 7-8 hours of sleep per night

**Some Basic Rules:**

CELL PHONES ARE TO BE MUTED OR OFF DURING CLASS SESSIONS.  
FOOD AND DRINK ARE NOT ALLOWED IN ANY OF THE CLASSROOMS.

**UWG Policies:**

For the Americans with Disabilities Act, UWG Email, Credit Hour, and UWG Honor Code policies as well as information on Academic Tutoring, Student Services, and Technical Requirements, Privacy Policy, and Accessibility Statements, please see the [Common Language for Syllabus](#) document.