

**Economics 3406
Statistics for Business II
SUMMER 2020
SECTION E02**

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Office Hours: Teleconference with Google Meet. Call or email for an appointment.

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) and learning objectives (LO) for the Richards College of Business can be found at [RCOB Undergraduate Learning Goals](#)

Text:

Statistical Techniques in Business and Economics
By Lind, Marchal, and Wathen, 17th Edition

We will use the McGrawHill Connect portal that goes along with this textbook. Connect is embedded in CourseDen.

There are three ways to gain access to this portal

- i. You can buy access directly through Connect.
- ii. If you bought two semester access for 3402 (or 3406) in the spring semester, that access is still good for this semester.
- iii. You can buy the Connect access card (6 month access) ISBN 9781260215250 from the bookstore.

Connect is integrated into CourseDen. Follow the link in the McGraw Hill widget at the bottom of the course homepage .

Course Structure:

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

For each Chapter there is a

- Power Point Lecture at CourseDen
- Learn Smart Exercise at Connect
- Homework Assignment at Connect
- Discussion Forum at CourseDen
- Chapter Quiz at Connect

Grading:

Your grade comes from the following 5 components:

Graded Exercise	Location	Points
1) Learn Smart Exercises	at Connect	200 Points
2) Chapter Homework Assignments	at Connect	200 Points
3) Participation (Chapter Forums)	at CourseDen	200 Points
4) Chapter Quizzes	at Connect	200 Points
5) Final Exam	at Connect	200 Points
Total		1000 points

1) 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 [this link](#).

The LearnSmart exercises can be found at the Connect portal. There are 9 exercises (one per chapter) worth 25 points each. The lowest score will be dropped.

2) Chapter Homework Assignments

For each chapter there is a 20 question homework set. You can do the homework exercise 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 Chapter Homework Assignments can be found at the Connect portal. There are 9 exercises (one per chapter) worth 25 points each. The lowest score will be dropped.

3) Chapter Discussion Forums (Participation)

The chapter discussion forums are the most important component of the course. This is where most of the interaction between me and you (and the other students) will take place.

The discussion forums are the place where you can ask questions, answer questions, and engage in discussions about the material. My job is to respond to your queries as well as moderate the discussion and in this way my expertise in this area can be tailor-made to best meet your needs. The more you participate in the discussion forums the more you will get out of this class.

There are 9 discussion forums (one for each chapter). The discussion forums are on CourseDen.

You get 40 participation points for making a credit earning post to a chapter discussion (you can make no more than 40 points for an individual forum and

up to 200 points over the entire semester). A credit earning post can take one of three forms:

- a. **Question:** A non-trivial question on the material or on a problem that you are having with a particular question. If you are posting a question start a new thread with “Question” as the first word in the title followed by a brief description that identifies the subject of the question. Feel free to post questions on the homework problems.

e.g.

Question: Chebyshev's Theorem

- b. **Answer:** You get credit if you are the first person to answer someone else’s question correctly or if you make a substantial addition to someone else’s answer. If you are answering someone else’s question please reply to the thread.
- c. **Comment:** You get credit if you can come up with unique practical examples/uses for the material being covered in the chapter. By unique I mean that it should not be an example that someone else has already posted. If you are posting a comment start a new thread with “Comment” as the first word in the title followed by a brief description that identifies the subject.

e.g.

Comment: Empirical rule in Asset Pricing

You cannot earn more than 40 participation points for any given forum. Of course you are free to make as many posts as you would like, but once you have earned the maximum 40 points for participation for any forum there are no extra points to be earned.

You cannot earn more than 200 participation points over the entire semester. Of course you are free to make as many posts as you would like, but once you have earned the maximum 200 points for participation over the semester there are no extra points to be earned.

Ask questions early so that you can expect an answer before assignments are due!

4) Chapter Quizzes

For each chapter there is a 20 question quiz. You have one attempt at the quiz.

Chapter Quizzes can be found at the Connect portal. There are 9 quizzes (one per chapter) worth 25 points each. The lowest score will be dropped.

5) Final Exam

The final exam is worth 200 points and is cumulative. The final exam will be on Thursday July 23 from 2:00PM to 4:00 PM EST on Connect. I will proctor the final using Google Meet. You will need a camcorder or a phone with video. If this is a problem for you please let me know as soon as possible.

Grading structure and point scale:

900-1000 points	90% - 100%	A
800 points - 899 points	80% - 89.9%	B
700 points - 799 points	70% - 79.9%	C
600 points - 699 points	60% - 69.9%	D
< 600 points	< 60%	F

Date	Item	Location
Wednesday, July 01, 2020	Chapter 3 LearnSmart due	Connect
	Chapter 3 Homework due	Connect
Thursday, July 02, 2020	Chapter 3 Forum closes	CourseDen
	Chapter 3 Quiz due	Connect
Friday, July 03, 2020	Chapter 7 LearnSmart due	Connect
	Chapter 7 Homework due	Connect
Saturday, July 04, 2020	Chapter 7 Forum closes	CourseDen
	Chapter 7 Quiz due	Connect
Monday, July 06, 2020	Chapter 8 LearnSmart due	Connect
	Chapter 8 Homework due	Connect
Tuesday, July 07, 2020	Chapter 8 Forum closes	CourseDen
	Chapter 8 Quiz due	Connect
Wednesday, July 08, 2020	Chapter 9 LearnSmart due	Connect
	Chapter 9 Homework due	Connect
Thursday, July 09, 2020	Chapter 9 Forum closes	CourseDen
	Chapter 9 Quiz due	Connect
Friday, July 10, 2020	Chapter 10 LearnSmart due	Connect
	Chapter 10 Homework due	Connect
Saturday, July 11, 2020	Chapter 10 Forum closes	CourseDen
	Chapter 10 Quiz due	Connect
Monday, July 13, 2020	Chapter 11 LearnSmart due	Connect
	Chapter 11 Homework due	Connect
Tuesday, July 14, 2020	Chapter 11 Forum closes	CourseDen
	Chapter 11 Quiz due	Connect
Wednesday, July 15, 2020	Chapter 12 LearnSmart due	Connect
	Chapter 12 Homework due	Connect
Thursday, July 16, 2020	Chapter 12 Forum closes	CourseDen
	Chapter 12 Quiz due	Connect
Friday, July 17, 2020	Chapter 13 LearnSmart due	Connect
	Chapter 13 Homework due	Connect
Saturday, July 18, 2020	Chapter 13 Forum closes	CourseDen
	Chapter 13 Quiz due	Connect
Monday, July 20, 2020	Chapter 14 LearnSmart due	Connect
	Chapter 14 Homework due	Connect
Tuesday, July 21, 2020	Chapter 14 Forum closes	CourseDen
	Chapter 14 Quiz due	Connect
Thursday, July 23, 2020	Final Exam 2:00 PM – 4:00 PM	Connect

Network Etiquette:

Communication in an online class takes special consideration. Please read the short list of tips below.

- Be sensitive and reflective to what others are saying.
- Don't use all caps. It is the equivalent of screaming.
- Don't flame - These are outbursts of extreme emotion or opinion.
- Think before you hit the post (enter/reply) button. You can't take it back!
- Don't use offensive language.
- Use clear subject lines.
- Don't use abbreviations or acronyms unless the entire class knows them.
- Be forgiving. Anyone can make a mistake.
- Keep the dialog collegial and professional.

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 Course Syllabi](#).

THIS SYLLABUS IS SUBJECT TO CHANGE. ALL CHANGES WILL BE ANNOUNCED ON COURSEDEN.