

<b>Professor</b>	Paul Damien
<b>Office</b>	CBA 5.242
<b>Office Hours</b>	Wed 10:30 a.m. to 12:00 or by appointment
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<b>Course Web Page</b>	Blackboard
<b>Teaching Assistants</b>	None

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## Course Objectives

This course introduces the concepts of mathematics and statistics with an emphasis on applying them to business problems. By the end of the term you will learn to make rational decisions in a variety of business contexts using quantitative notions.

## Leadership and this Course

A noteworthy quality of leadership is the ability to ratiocinate quantitatively and qualitatively. This course targets this aspect of leadership.

## Materials

*Text: Data Analysis and Decision Making with Microsoft Excel*, Third Revised Edition by Albright, Winston, Zappe.

*Data:* All the data files referred to in the book are on the CD ROM that is in the back of your textbook. Additionally, where necessary, I will post data files that are not in the book. Please note that the file names which appear on the PPT slides are not links; that is, you cannot access the data files from the PPT slides; you can only access them from the CD ROM.

*Software:* The Decision Tools and StatTools Suite: Make sure to have these installed. SWAT can help.

*Blackboard:* All the files will be posted under Course Documents, where separate folders have been created based on file type.

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## Course Requirements and Grading

Four assignments: three individual assignments; one team assignment. I will assign teams using a randomized scheme.

Each assignment is worth 20% of your grade. Electronic and/or late submissions will NOT be accepted. **Due Dates** for Assignments will be announced in class based on the topics we cover in class. In any case, you will have at least two weeks' notice before each assignment is due.

Midterm Exam will be 20% of your grade. The exam is CLOSED book + No notes + No computers + No Blackberry, etc. Calculators are allowed on the exams. You will not have to memorize anything, including formulae. They will be provided to you, if necessary.

**Midterm Exam Date:** Will be announced in the 2<sup>nd</sup> week of the semester.

There is no final exam.

The standard McCombs grading policy for core courses will be used to determine your final grades. Please note that there is no way I can guess at what your final grade will be until the final assignment has been graded. The overall grade for the course will be determined when I curve the total of all the five components that comprise the grade.

## Schedule

### PART I: PRELIMINARIES

The topics listed below are ideas you covered in the prerequisite to this course. We will review *some* of these preliminaries. Additionally, you are required to know the material from the prerequisite course, and that are not listed below.

At the end of each chapter, the textbook details functions or options in Excel (or STATTOOLS) you need to know. Additionally, on *Blackboard*, I will post details of certain Excel options as and when needed to help you gain a more solid understanding of the use of the software. In this regard, an Excel Tutorial file has been posted. Please make sure that you practice with commands that you don't know. In particular, practice with the DATA TABLES and IF-THEN illustrations. I will not go over them in class since you are expected to know Excel for the course.

**Practice Problems:** Work as many problems as time permits in the back of the text. Additionally, you should try to work out those examples in the book that we don't cover in class. This will be helpful since you have access to detailed solutions to these examples.

I have also posted a math tutorial file on Logarithms and Exponentials. Please read carefully.

Chapter 2: Sections 2.1 through 2.6

Chapter 3: Sections 3.1 through 3.6

Chapter 6: Sections 6.1 through 6.3

Logarithms/Exponentials Math Review Session

### PART II: REGRESSION

Chapters 11 and 12 will be covered in their entirety, except Sections 12.6 and 12.7. The examples in these chapters are the strong point. But the order of presentation might be confusing to some students. Hence, please follow my lecture synopses and you will do just fine.

Chapter 11: All Sections

Chapter 12: Sections 12.1 through 12.5

**Logistic Regression** does not appear in your textbook, but you will be given a comprehensive set of notes to understand logistic regression.

Detailed computer analysis will be provided in class and/or via *Blackboard*.

### **PART III: DECISION ANALYSIS**

Chapter 7: All Sections

### **PART IV: BASIC SIMULATION MODELS**

Select sections from Chapter 16 and 17 will be discussed. These two chapters are interconnected as you will discover.

### **McCombs Classroom Professionalism Policy**

The highest professional standards are expected of all members of the McCombs community. The collective class reputation and the value of the Texas BBA experience hinges on this.

The Texas BBA classroom experience is enhanced when:

- **Students arrive on time.** On time arrival ensures that classes are able to start and finish at the scheduled time. On time arrival shows respect for both fellow students and faculty and it enhances learning by reducing avoidable distractions.
- **Students display their name cards.** This permits fellow students and faculty to learn names.
- **Students attend the class section to which they are registered.** Learning is enhanced when class sizes are optimized. Limits are set to ensure a quality experience. When section hopping takes place some classes become too large and it becomes difficult to contribute. When they are too small, the breadth of experience and opinion suffers.
- **Students respect the views and opinions of their colleagues.** Disagreement and debate are encouraged. Intolerance for the views of others is unacceptable.
- **Laptops use.** ZERO tolerance for web surfing, emailing, etc, during class hours.
- **Phones and wireless devices are turned off.** **ZERO** tolerance for these devices in class. After the 2<sup>nd</sup> warning, you will lose 15 points off of your exam score. Usually that translates to a drop in the final letter grade.

### **Academic Dishonesty**

Zero tolerance for acts of academic dishonesty. Such acts damage the reputation of the school and the

degree and demean the honest efforts of the majority of students. The minimum penalty for an act of academic dishonesty will be a zero for that assignment or exam.

### **Students with Disabilities**

Upon request, the University of Texas at Austin provides appropriate academic accommodations for qualified students with disabilities. Services for Students with Disabilities (SSD) is housed in the Office of the Dean of Students, located on the fourth floor of the Student Services Building. Information on how to register, downloadable forms, including guidelines for documentation, accommodation request letters, and releases of information are available online at <http://deanofstudents.utexas.edu/ssd/index.php>. Please do not hesitate to contact SSD at (512) 471-6259, VP: (512) 232-2937 or via e-mail if you have any questions.