B A 286T STATISTICS (TEMBA)

UNIQUE NUMBER 02210, 02202

Fall 2024

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Office hours: Weds 5-6 PM on Zoom (and by appointment)

Course website: https://jaredsmurray.github.io/mba_stats/ and Canvas (utexas.instructure.com)

COURSE DESCRIPTION

UNIVERSITY CATALOG COURSE DESCRIPTION

A unified approach to basic concepts in collection, analysis, and interpretation of data, emphasizing capabilities of different statistical methods and business applications. Students use statistical software packages.

PRE-REQUISITES FOR THE COURSE

Graduate standing and admission to the McCombs School of Business. (Restricted to Texas Evening MBA)

LEARNING OUTCOMES

On successfully completing this course students will be able to

1. Use the language of probability to understand and communicate risk, and to make decisions under uncertainty
2. Use data to draw appropriate inferences, test hypotheses, and estimate the parameters of probability models used for prediction, understanding, and decision making
3. Report the results of a data analysis with appropriate measures of uncertainty and error
4. Conduct regression analyses for prediction and for understanding relationships between predictors and the outcome

HOW WILL YOU LEARN?

TEACHING MODALITY INFORMATION

This course is fully synchronous and in-person; while I record lectures via Zoom, this isn't a hybrid class and there is no remote participation except in extenuating circumstances.

COMMUNICATION

The course Canvas site can be found at utexas.instructure.com. Please email me through Canvas. You are responsible for ensuring that the primary email address you have recorded with the university is the one you will check for course communications because that is the email address that Canvas uses.

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ASKING FOR HELP

I encourage you to work together to help each other understand the course material. You may also work together on homework assignments. You may also get help by attending my office hours, or scheduling an appointment with me.

UNIVERSITY POLICIES AND RESOURCES

For a list of important university policies and helpful resources that you may need as you engage with and navigate your courses and the university, see the University Policies and Resources Students Canvas page. The page includes the language of the University Honor Code, Title IX legal requirements for Texas employees, and information about how to receive support through the office of Disability & Access.

COURSE REQUIREMENTS AND GRADING

REQUIRED MATERIALS

"Naked Statistics" by Charles Wheelan. We'll use Excel to do data analysis in and out of class.

SHARING OF COURSE MATERIALS IS PROHIBITED

No materials used in this class, including, but not limited to, lecture hand-outs, videos, assessments (quizzes, exams, papers, projects, homework assignments), in-class materials, review sheets, and additional problem sets, may be shared online or with anyone outside of the class without my explicit, my written permission. Unauthorized sharing of materials may facilitate cheating. The University is aware of the sites used for sharing materials, and any materials found online that are associated with you, or any suspected unauthorized sharing of materials, will be reported to Student Conduct and Academic Integrity in the Office of the Dean of Students. These reports can result in initiation of the student conduct process and include charge(s) for academic misconduct, potentially resulting in sanctions, including a grade impact.

REQUIRED DEVICES

You will need a laptop in class to complete the quizzes and final exams.

CONFIDENTIALITY OF CLASS RECORDINGS

Class recordings are reserved only for students in this class for educational purposes and are protected under FERPA. The recordings should not be shared outside the class in any form. Violation of this restriction by a student could lead to Student Misconduct proceedings.

GETTING HELP WITH TECHNOLOGY

Students needing help with technology in this course should contact the ITS Service Desk

CLASSROOM EXPECTATIONS

Class attendance I expect everyone to be in class, unless there are extenuating circumstances. We cover a lot of material in a short period of time!

Class participation I expect everyone to be active and engaged; we will spend time in discussion and working through problems together or in small groups, and you will get the most out of this experience by participating fully.

Behavior expectations I expect everyone to conduct themselves professionally and to treat one another with respect.

ARTIFICIAL INTELLIGENCE

The creation of artificial intelligence tools for widespread use is an exciting innovation. These tools have both appropriate and inappropriate uses in classwork. The use of artificial intelligence tools (such as ChatGPT) in this class is strictly prohibited. This includes using AI to generate ideas, outline an approach, answer questions, solve problems, or create original language. All work in this course must be your own or created in group work, where allowed.

ASSIGNMENTS

The following table represents how you will demonstrate your learning and how we will assess the degree to which you have done so.

Assignments	Percent of Total Grade
1. Quizzes (3)	30%
2. Final Exam	70%

LATE WORK AND MAKING UP MISSED WORK

There are no make-ups for quizzes or for the final exam.

ABSENCES

There is no formal attendance policy and you do not need to inform me of any absences, but please see above about the importance of attendance!

RELIGIOUS HOLY DAYS

By UT Austin policy, you must notify me of your pending absence for a religious holy day as far in advance as possible of the date of observance. If you must miss a class, an examination, a work assignment, or a project in order to observe a religious holy day, you will be given an opportunity to complete the missed work within a reasonable time after the absence.

EQUITABLE ACCOMMODATION

I will drop the lowest non-zero quiz grade.

EXTRA CREDIT

There is no extra credit in this course; on average, extra credit tends to most benefit the students who need it the least (i.e., those who are already doing well).

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GRADE BREAKS

I will assign letter grades based on the following cutoffs. While there is no pre-determined grade distribnution for this class I may (and often do) curve final grades before assigning letter grades. Any curve will **only** be in your favor, and will not change your overall class rank.

Grade	Cutoff
A	94%
A-	90%
B+	87%
B	84%
B-	80%
C+	77%
C	74%
C-	70%
D+	67%
D	64%
D-	60%
F	<60%

ACADEMIC INTEGRITY EXPECTATIONS

Students who violate University rules on academic misconduct are subject to the student conduct process. A student found responsible for academic misconduct may be assigned both a status sanction and a grade impact for the course. The grade impact could range from a zero on the assignment in question up to a failing grade in the course. A status sanction can include a written warning, probation, deferred suspension or dismissal from the University. To learn more about academic integrity standards, tips for avoiding a potential academic misconduct violation, and the overall conduct process, please visit the Student Conduct and Academic Integrity website at: http://deanofstudents.utexas.edu/conduct.

[It is strongly recommended that you outline any individual expectations for assignment completion- including parameters around group work, authorized resources, citation requirements, etc. in the assignment directions. Clear and detailed expectations not only reduce the likelihood of a possible violation, but they also aid the Student Conduct team in holding students accountable that fail to adhere to the assignment directions.]

COURSE OUTLINE

All instructions, assignments, readings, rubrics and essential information will be on the course website, linked from our Canvas website at utexas.instructure.com. Check Canvas regularly, as I use it to communicate any important announcements or changes. **Changes** to the schedule may be made at my discretion if circumstances require. I will announce any such changes in class and will also communicate them via a Canvas announcement. It is your responsibility to note these changes when announced, and I will do my best to ensure that you are notified of changes with as much advance notice as possible.

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Below is a *tentative* list of topics we'll cover each class; we'll move at your speed and I will make adjustments as needed. The dates of the quizzes and final exam will not change unless I am absolutely unable to avoid doing so.

Day	Class Topic	Assessments
8/23	Section 1 (Intro and Probability)	
8/25	Section 1 (Intro and Probability)	
8/26	Section 1.1 (Portfolios)	
9/3 & 4	Section 2 (Learning from Data)	Quiz 1
9/9 & 10	Section 2 (Learning from Data)	
9/16 & 17	Section 3 (Simple Linear Regression)	Quiz 2
9/23 & 24	Section 4 (Multiple Linear Regression)	
9/30 & 10/1	Section 4 (Multiple Linear Regression)	Quiz 3
10/7 & 8	Final Exam	Final Exam

IMPORTANT SAFETY INFORMATION

CARRYING OF HANDGUNS ON CAMPUS

Students in this class should be aware of the following university policies related to Texas' Open Carry Law:

- Students in this class who hold a license to carry are asked to review the university policy regarding campus carry.
- Individuals who hold a license to carry are eligible to carry a concealed handgun on campus, including in most outdoor areas, buildings and spaces that are accessible to the public, and in classrooms.
- It is the responsibility of concealed-carry license holders to carry their handguns on or about their person at all times while on campus. Open carry is NOT permitted, meaning that a license holder may not carry a partially or wholly visible handgun on campus premises or on any university driveway, street, sidewalk or walkway, parking lot, parking garage, or other parking area.