

Course Syllabus

Course Information

Course Number/Section	OPRE 3360
Course Title	Managerial Decision Making under Uncertainty
Term	Fall 2025

Professor Contact Information

Professor	Katie Ahadi, PhD
Email Address	kahadi@utdallas.edu
Office Location	13.209
Online Office Hours	Mo/Wed 12:00 PM – 1:00 PM

The office hours will be held on MS Teams: [Office Hours: OPRE 3360- Fall 25](#)

Course Pre-requisites, Co-requisites, and/or Other Restrictions

MATH 1326 or MATH 2414 or MATH 2419. Credit cannot be received for both courses, OPRE 3360 and STAT 3360.

Course Description

Introduces the concept of probability and statistics to managerial decision-making. Concepts will be developed in lectures and exercises using software packages. Topics include: summarizing and presenting data, probability theory, sampling, estimation, confidence intervals, hypothesis testing, and regression. Emphasis will be given to modeling and solving business problems in Finance, Marketing, Accounting, and Operations Management.

Students Learning Outcomes

Students will develop skills in problem formulation, identification of appropriate statistical techniques, computer implementations in Excel and manual calculations and written explanations, and interpretation of empirical results. At the end of this course will be able to:

- Be acquainted with the concept of sample and population.
- Calculate and interpret statistics in context.
- Use statistics to describe samples and test hypotheses to make inferences about populations.
- Present data using Excel as an analytic tool.

The main objective of this introductory statistics course is for students to understand key statistical concepts and develop the ability to apply those concepts to analyze data and solve real-world problems. While Excel is introduced as a computational tool to facilitate data analysis, the course's primary focus is not on learning Excel itself. Instead, it emphasizes building a foundation in statistical reasoning and interpretation. Students who wish to deepen their knowledge and skills in Excel are encouraged to explore courses such as OPRE 4350 and ITSS 3300, which are designed to provide training in Excel and related tools.

Textbooks and Materials

Textbook: Modern Business Statistics with Microsoft Excel (6th Edition)

You may purchase the textbook from the UTD bookstore, Cengage publisher, or Amazon.

Software: Microsoft Office Excel

This course uses a laptop, eLearning, Internet access, Microsoft Excel 2007 or higher (no trial versions), with Data Analysis and Solver Activated (this comes with Excel).

Instructor Resources

[Registrar's Intranet](#): please log in with your UTD NetID and password to access this site. Information that faculty need about grading, scheduling, and other essential aspects of our responsibilities related to teaching are made available and updated regularly in the Registrar's Intranet. This source of information can only be accessed by logging in with your UTD NetID and password. Many important faculty questions are answered here, and this is information that faculty members are expected to know and understand.

[FERPA Guidelines](#): you will be asked to log in before you access the FERPA Faculty Guidelines webpage on the Registrar's Intranet. If faculty have additional questions about FERPA guidance, please [email](#) the Office of the Registrar for the proper student consent forms and further instructions. NOTE: Class recordings from prior semesters may be used as long there are no identifiable student information due to [FERPA](#) because instructors will need students' written consent first. Please review your previous class recordings for identifiable student information before using them in the current term. For additional guidance, contact the [Office of the Registrar](#).

Technical Requirements

In addition to a confident level of computer and Internet literacy, certain minimum technical requirements must be met to enable a successful learning experience. Please review the important technical requirements on the [Getting Started with eLearning](#) webpage.

Course Access and Navigation

This course can be accessed using your UT Dallas NetID account on the [eLearning](#) website.

Please see the course access and navigation section of the [Getting Started with eLearning](#) webpage for more information.

To become familiar with the eLearning tool, please see the [Student eLearning Tutorials](#) webpage.

UT Dallas provides eLearning technical support 24 hours a day, 7 days a week. The [eLearning Support Center](#) includes a toll-free telephone number for immediate assistance (1-866-588-3192), email request service, and an online chat service.

Communication

This course utilizes online tools for interaction and communication. Some external communication tools, such as regular email and a web conferencing tool may also be used during the semester. For more details, please visit the [Student eLearning Tutorials](#) webpage for video demonstrations on eLearning tools.

Student emails and discussion board messages will be answered within 3 working days under normal circumstances.

Distance Learning Student Resources

Online students have access to resources including the McDermott Library, Academic Advising, The AccessAbility Resource Center, and many others. Please see the [eLearning Current Students](#) webpage for more information.

Server Unavailability or Other Technical Difficulties

The University is committed to providing a reliable learning management system to all users. However, in the event of any unexpected server outage or any unusual technical difficulty that prevents students from completing a time-sensitive assessment activity, the instructor will provide an appropriate accommodation based on the situation. Students should immediately report any problems to the instructor and also contact the online [eLearning Help Desk](#).

The instructor and the eLearning Help Desk will work with the student to resolve any issues at the earliest possible time.

Academic Calendar

Week-Date	Chapter / Lecture	Assignment/Exam
Module 1		
Week 1 Aug 29	Chapter 1: Introduction to Data and Statistics Chapter 2: Tabular & Graphical Display	HW 0: Syllabus
Week 2 Sep 5	Chapter 3: Numerical Measures	HW 1: Chapters 1-3
Module 2		
Week 3 Sep 12	Chapter 4: Introduction to Probability	HW 2: Chapter 4
Week 4 Sep 19	No class	Exam 1 – Module 1: Chapters 1-3 Sep 15 – Sep 17 http://registerblast.com/utdallas/exam
Week 5 Sep 26	Chapter 5: Discrete probability distribution	
Week 6 Oct 3	Chapter 5: Discrete probability distribution	HW 3: Chapter 5
Week 7 Oct 10	Chapter 6: Continuous probability distribution	HW 4: Chapter 6
Module 3		
Week 8 Oct 17	Chapter 7: Sampling and Sampling Distributions	HW 5: Chapter 7
Week 9 Oct 24	No Class	Exam 2 – Module 2: Chapters 4-6 Oct 20 – Oct 22 http://registerblast.com/utdallas/exam
Week 10 Oct 31	Chapter 8: Interval estimation	HW 6: Chapter 8
Week 11 Nov 7	Chapter 9: Hypothesis Testing	HW 7: Chapter 9
Week 12 Nov 14	Chapter 14: Simple Linear Regression	
Week 13 Nov 21	Chapter 15: Multiple Regression	HW 8: Chapter 14, 15
Week 14 Nov 28	Fall & Thanksgiving Break	
Week 15 Dec 5	No Class	Exam 3 – Module 3: Chapters 7-14 Friday, Dec 5, 10:30 AM – 12:30 PM In class

Summary of Course Grading

Graded Components	% Contribution
Exam #1	25%
Exam #2	25%
Exam #3	25%
Average of Assignments	25%
Extra Credit – Assignment 0	<i>Up to 5 additional points will be added to the average assignment score based on performance on Assignment 0. Extra credit does not count toward the 100% course total.</i>
Course Total	100%

Grading Policy

A+	A	A-	B+	B	B-	C+	C	C-	D+	D	D-	F
97– 100%	93– 96.9%	90– 92.9%	87– 89.9%	83– 86.9%	80– 82.9%	77– 79.9%	73– 76.9%	70– 72.9%	67– 69.9%	63– 66.9%	60– 62.9%	Below 60%

Exams

1. **All three Exams are online** and will be held via the eLearning system.
2. All three exams are timed, ranging from 90 to 120 minutes, and consist of 30 to 40 multiple-choice or fill-in-the-blank questions.
3. **Exam 1 and 2 will be administered by the Testing Center (UTD Synergy Park), and Exam 3 in class according to the class schedule.**
4. Students should visit <https://ets.utdallas.edu/testing-center> for more info. Be advised that a student ID (Comet card) is required for taking exams. The details will be announced through eLearning prior to each exam. Students are strongly encouraged to register for a seat early in advance, preferably during the first 2 weeks of the semester. **Students MUST reserve a seat for taking the test at least 4 days prior to the exam:**
<http://registerblast.com/utdallas/exam>.
5. There will be **NO make-up/rescheduling exams** except for medical emergencies (a written statement justifying the situation from a physician is required). The written statement should include the physician's (not a physician assistant) address and phone number for verification purposes. Scheduling a surgery/operation on an exam date is not considered a medical emergency!
6. Test results will **NOT** be available for the students. However, you have **one week**, after grades are posted on eLearning, to set an appointment with the TA and check your test.

Homework Assignments

1. There are 8 homework assignments (numbered 1 to 8) throughout the semester.
2. HW 0 covers the course syllabus and is an extra credit opportunity worth 5 points. These points will be added to the average of your HW assignments at the end of the semester. It consists of 20 multiple-choice questions and has a 30-minute time limit for completion.

3. **All the assignments are online** and will be held via the eLearning system.
4. Homework assignments are to be submitted individually online via eLearning.
5. The assignments are available **Monday at 8 AM and due on Sunday at 11:59 PM**.
6. The solutions to the homework will be provided after the due date; therefore, **no late submission will be accepted**.
7. Any concern regarding the grading of homework assignments should be addressed directly to the TA and not to the instructor, no later than one week after the graded assignment is returned.
8. General questions regarding HW must be posted on the course **Discussion Board**.

Course Policies

1. It is your responsibility to read the syllabus and check the eLearning for announcements/changes daily.
2. You **MUST** communicate with me or the TA via **your UTD email account** only (for privacy and FERPA purposes). Emails from a personal account (e.g., Gmail, Yahoo, etc.), will not be answered.
3. Please ensure e-mail messages **include the course name and section number** in the subject line.
4. Please ensure that you cc your TA on every email you send to me.
5. **You must pay close attention to all the due dates** from the first day of class and schedule your personal activities around those dates. Never purchase a plane ticket (no matter how cheap it is) before the posted final “Exam Week” (review the UTD calendar for specific dates).
6. Any type of discussion about questions and answers on assignments/tests, including those held on social media platforms and other electronic chat groups, may be considered **cheating**.

Important Note: If any adjustments to final grades are necessary, they will be determined based on the performance of the class. Unless there is an error in grading the final exam, letter grades are **FINAL**. Extra credit will NOT be offered for any graded portions of this course. Any emails requesting extra credit won't be replied to by the instructor or the TA.

Class Participation

Regular class participation is expected. Students who fail to participate in class regularly are inviting scholastic difficulty. A portion of the grade for this course is directly tied to your participation in this class. It also includes engaging in group or other activities during class that solicit your feedback on homework assignments, readings, or materials covered in the lectures (and/or labs). Class participation is documented by faculty. Successful participation is defined as consistently adhering to University requirements, as presented in this syllabus. Failure to comply with these University requirements is a violation of the [Student Code of Conduct](#).

Note: the instructor may choose to include one or neither of the following statements:

- (a) Texas Senate Bill 17, the recent law that prohibits diversity, equity, and inclusion programs and activities at public universities in Texas, does not in any way apply to academic course instruction. Students should not feel the need to self-censor or limit their participation in academic courses pertaining to topics of race and racism, structural inequality, LGBTQ+ issues, or diversity, equity, and inclusion, and related topics.
- (b) Texas Senate Bill 17, the recent law that prohibits diversity, equity, and inclusion programs and activities at public universities in Texas, does not in any way apply to academic course instruction.

Class Recordings

Students are expected to follow appropriate University policies and maintain the security of passwords used to access recorded lectures. Unless the AccessAbility Resource Center has approved the student to record the instruction, students are expressly prohibited from recording any part of this course. Recordings may not be published, reproduced, or shared with those not in the class, or uploaded to other online environments except to implement an approved AccessAbility Resource Center accommodation. Failure to comply with these University requirements is a violation of the [Student Code of Conduct](#).

Comet Creed

This creed was voted on by the UT Dallas student body in 2014. It is a standard that Comets choose to live by and encourage others to do the same:

“As a Comet, I pledge honesty, integrity, and service in all that I do.”

Accommodations for Students with Disabilities

Please review [the section](#) within the UT Dallas Syllabus Policies and Procedures webpage.

Academic Support Resources

Please visit the [Academic Support Resources](#) page to view the University’s academic support resources for all students.

UT Dallas Syllabus Policies and Procedures

Please visit the [Syllabus Policies](#) page to view the University’s policies and procedures segment of the course syllabus.

Please review the catalog sections regarding the [credit/no credit](#) or [pass/fail](#) grading option and withdrawal from class.

The descriptions and timelines contained in this syllabus are subject to change at the discretion of the Professor.