

# Course Syllabus

## Course Information

Course Number:	OPRE 3360.5U1 (Updated 6/6/19)
Course Title:	Managerial Methods in Decision Making Under Uncertainty
Term:	Summer 2019
Days & Time:	Tuesday, 6:00 PM – 10:00 PM, JSOM 2.103
Instructor:	Mo Naseri
Office Location:	SOM 4.614 (Dean's Suite)
Office Hours:	Monday & Tuesday, 3:00 PM – 4:30 PM
Office Phone:	(972) 883-5892
Email:	naseri@utdallas.edu

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

MATH 1325 or MATH 2413 or MATH 2417.

## Course Description

Introduces the concept of probability and statistics for managerial decision-making. Concepts will be developed in lecture and exercises using software packages and topics including: summarizing and presenting data, probability theory, sampling, estimation, confidence intervals, hypothesis testing, regression, and ANOVA.

## Learning Outcomes

Students are expected to develop skills on 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 you should 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 hypothesis to make inferences about populations.
- Present data using Excel as an analytic tool.

## Required Textbooks and Materials

**Textbook:** Modern Business Statistics with Microsoft® Excel® (6th Edition) Authors: Anderson, Sweeney, Williams

1. Through UTD Bookstore
2. Through Cengage link:  
<https://www.cengage.com/dashboard/#/course-confirmation/MTPNSZ3NR5J7/initial-course-confirmation>

**Software:** Microsoft® Office Excel®

This course uses a laptop, eLearning, Internet access, Microsoft Excel 2007 or higher (no trial versions), Data Analysis Activated (this comes with Excel), and Web Data Files (available for download from the textbook Publisher's website for your textbook at CengageBrain.com). If you are using a Mac, it is recommended to install a Windows Virtual machine, such as Parallel Desktop, or VMWare Fusion 4 which will then allow the use of Windows within the Mac Operating System.

**The Statistics and Math lab**, offers assistance to undergraduate students for OPRE 3333 and OPRE 3360. The schedule is 1pm-6 pm Tuesday, Wednesday and Thursday and it is located in room 2.414.

*These descriptions and timelines are subject to change at the discretion of the Professor.*

## Tentative Schedule

The following is a **tentative schedule**, which will be followed as closely as possible. However, should any changes become necessary, it will be announced in the class or via Blackboard.

Week - Day	Chapter / Lecture
Week 1 May 28	<ul style="list-style-type: none"> <li>• Introduction to OPRE 3360</li> <li>• Chapter 1 - Introduction to Data and Statistics</li> <li>• Chapter 2 - Descriptive Statistics: Tabular &amp; Graphical Display</li> </ul>
Week 2 Jun 4	<ul style="list-style-type: none"> <li>• Chapter 3 - Descriptive Statistics: Numerical Measures</li> <li>• <b>Quiz 1</b> - in Class: Chapters 1, 2 &amp; 3</li> </ul>
Week 3 Jun 11	<ul style="list-style-type: none"> <li>• <b>Exam 1 - in Testing Center: Chapters 1, 2 &amp; 3</b> (from 8:30am to 6pm)</li> <li>• Chapter 4 - Introduction to Probability</li> </ul>
Week 4 Jun 18	<ul style="list-style-type: none"> <li>• Chapter 5 - Discrete Probability Distributions</li> <li>• <b>Quiz 2</b> - in Class: Chapters 4 &amp; 5</li> </ul>
Week 5 Jun 25	<ul style="list-style-type: none"> <li>• Chapter 6 - Continuous Probability Distributions</li> <li>• <b>Quiz 3</b> - in Class: Chapters 4, 5 &amp; 6</li> </ul>
Week 6 Jul 2	<ul style="list-style-type: none"> <li>• <b>Exam 2 - in Testing Center: Chapters 4, 5 &amp; 6</b> (from 8:30am to 6pm)</li> <li>• Chapter 7 - Sampling &amp; Sampling Distributions</li> </ul>
Week 7 Jul 9	<ul style="list-style-type: none"> <li>• Chapter 8 - Interval Estimation</li> <li>• <b>Quiz 4</b> - in Class: Chapters 7 &amp; 8</li> </ul>
Week 8 Jul 16	<ul style="list-style-type: none"> <li>• Chapter 9 - Hypothesis Tests</li> <li>• <b>Quiz 5</b> - in Class: Chapters 7, 8, &amp; 9</li> </ul>
Week 9 Jul 23	<ul style="list-style-type: none"> <li>• Chapter 9 - Hypothesis Tests</li> <li>• <b>Quiz 6</b> - in Class: Chapters 7, 8, &amp; 9</li> </ul>
Week 10 Jul 30	<ul style="list-style-type: none"> <li>• <b>Exam 3 - in Testing Center: Chapters 7, 8 &amp; 9</b> (from 8:30am to 6pm)</li> </ul>

## Grading Policy

Percentage		Scale			
Exam 1	20 Points	97 - 100 = A+	87 - 89 = B+	77 - 79 = C+	67 - 69 = D+
Exam 2	30 Points	93 - 96 = A	83 - 86 = B	73 - 76 = C	63 - 66 = D
Exam 3	30 Points	90 - 92 = A-	80 - 82 = B-	70 - 72 = C-	60 - 62 = D-
Quizzes (top 4, 5 points each)	20 Points				Below 60 = F

## Course Policies

### ➤ Exams

1. Exams will be administered by the Testing Center (UTD Synergy Park). Students should visit <https://ets.utdallas.edu/testing-center> for more info. Be advised that 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 a seat early in advance preferably during the first 2 weeks of Summer semester. Students **MUST** reserve a seat for taking the test at least 72 hours prior to exam.
2. There will be **NO** make-up/rescheduling exam except for medical emergencies (written statement justifying the situation from a physician required). Written statement should include the physician's (not a physician assistant) address and phone number for the verification purpose. Scheduling a surgery/operation on an exam date is not considered a medical emergency!
3. Exams will **NOT** be returned to students. However, students have one week (only one week) after grades are posted on eLearning, to check their tests during the office hours and have the instructor's feedback.

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## ➤ Quizzes

1. There is a quiz at the end of almost every class (6 quizzes in total). Each quiz may cover previous chapters (mentioned above) AND current class topics. This means students are expected to attend every class, carefully follow the lectures, and actively participate in discussions.
2. The quizzes are multiple-choice and will be taken in class. You will need to bring 882-e scantron for all the quizzes and you may need laptop for some of the quizzes.
3. The lowest two quizzes will be dropped and the top four will be considered only.
4. Be advised, there is no need to provide any documents (like doctor note) or justifications in case of absence. Students may miss two quizzes and still no points will be deducted from their overall grades. This means there will be no make-up (no justifications) for a missed class under any circumstances.  
*\*\* This is a policy with no exception, so PLEASE do not ask to reschedule a quiz/for a make-up quiz when you miss a class, I will not violate the course policy. I strongly advice you do not skip classes/quizzes and keep the two chances for unexpected circumstances, such as wedding, urgent meeting, job interview, and etc.*
5. Students will NOT be allowed to take quiz in other class sections under any circumstances. If student attend any other sections, his/her quiz will NOT be graded.
6. Graphing calculators are NOT allowed for any quizzes. Using cell phone or any other electronic devices are NOT allowed either.
7. Quizzes will NOT be returned to students. However, students have one week (only one week) after grades are posted on eLearning, to check their tests during the office hours and have the instructor's feedback.

## ➤ General Rules, Communication and Academic Dishonesty

1. Taking picture/Recording video will NOT be allowed during any classes.
2. According to FERPA and without exception, students MUST communicate with the instructor via their UTD email only (emails from personal email accounts such as Gmail, Yahoo, etc. will not be answered).
3. Announcements/changes will be through the eLearning and/or UT Dallas email and it is student's responsibility to log into eLearning and UTD email periodically (daily) and review the provided materials.
4. If student missed a class, then he/she should ask classmates about what was covered in class.
5. There will be NO extra credit in this course.
6. Students in this course suspected of academic dishonesty are subject to disciplinary proceedings, and if found responsible, the following minimum sanctions will be applied:
  - Homework – Zero for the Assignment
  - Quizzes – Zero for the Quiz
  - Tests – F for the course

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### 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.”*

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### UT Dallas Syllabus Policies and Procedures

The information contained in the following link constitutes the University's policies and procedures segment of course syllabus.

Please go to <https://go.utdallas.edu/syllabus-policies> for these policies.

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