

Course OPRE 3360.004

Managerial Methods in Decision Making Under Uncertainty.

**Professor** Dr. Monica Brussolo

**Term** Fall 2016

Meetings Monday/Wednesday 1-2:15 pm at JSOM 12.202

## PROFESSOR'S CONTACT INFORMATION

Phone	972-883-4411
Office location	JSOM 3.231
Email address	monica.brussolo@utdallas.edu
Office hours	Tuesday 2-4 pm and Thursday 10 am-12 pm, appointments are encouraged using
Office flours	this link <u>utdscm.genbook.com</u>
Other information	E-mail is recommended for <b>ALL</b> communications during the semester.
Other information	eLearning will be used to post announcements, assignments and grades.
<b>Teaching Assistant</b>	Wengang (Carlos) Gao
T.A. Information	wxg150630@utdallas.edu
TA office hours	To be posted on eLearning Announcements

### **GENERAL COURSE INFORMATION**

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Pre-requisites, Co-	Prerequisite: MATH 1326 Applied Calculus II (or MATH 2414 Integral Calculus
requisites, & other restrictions	or MATH 2419 Calculus II). The topics discussed in this course are inherently
	mathematical. Although the level of math in this course is not advanced, students
	are encouraged to explore supplementary resources early on the semester.
	Introduces the concept of probability and statistics to managerial decision
	making. Concepts will be developed in lecture and exercises. Some problems will
	be solved using software packages. Topics include: summarizing and presenting
<b>Course Description</b>	data, probability theory, sampling, estimation, confidence intervals, hypothesis
	testing, regression, and ANOVA. Emphasis will be given to modeling and
	solving business problems in Finance, Marketing, Accounting, and Operations
	Management.
	As any statistics course, this class requires much work in and out of the classroom.
	Active and informed participation is expected from every student. Class sessions
	will be a combination of lecture, discussion, and in-class exercises.
	Because the readings are a major source of learning, students are expected to study
	this material as it is assigned. Though it shall vary from week to week, plan to
Learning	spend an estimated 6 to 9 hours per week on this class, in addition to classroom
Outcomes and	time.
Expectations	At the end of this course you should:
	Be acquainted with the concept of sample and population
	Be able to calculate and interpret statistics in context
	Be able to use statistics to describe samples and test hypothesis to make
	inferences about populations.
	Be able to present data using Excel as an analytic tool.    Continue
	Anderson, D., Sweeney, D. and Williams, T. (2014) Modern Business Statistics
	with Microsoft Office Excel, 5th ed. with Cengage Aplia online learning resource,
Required Texts &	
Materials	Choose one of the following two options:
	Option 1- Aplia and ebook – ISBN: 978-1-305-25511-1 / 978-1-305-25512-8
	Option 2- Aplia, ebook and 3-ring loose leaf textbook ISBN 978-1-305-02912-5
	Instructions of how to register with Aplia will be provided in class the first week.

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	Purchasing Options:
	Option 1 – UTD Bookstore
	Option 2 -http://services.cengagebrain.com/course/site.html?id=1569996
	A calculator is required for this course. Any calculator of your choice is authorized
	as long as it has the following minimum capabilities: basic 4-functions, square root,
	exponent, and display 4 or more decimal places. You are required to bring this
	calculator to each exam and know how to use it.
Suggested	If you attend class regularly and do the assigned work, the textbook and lecture
Readings, &	·
Material	notes should suffice!
	Though this syllabus is intended to be a guide for our course, I reserve the right to
	modify any of its contents throughout the semester if necessary. Any changes will
Syllabus Changes	be discussed in class and posted immediately on the UTD eLearning site so you
	can plan accordingly. Be sure to check for any announcements, since this document
	functions as a contract of what to expect in this class.

# **COURSE POLICIES**

	3 In-class exams 25% each (75%). The exams are not cumulative.
	Aplia Assignments (20%). The assignments covered material from each chapter
	and the lowest grade will be dropped. Due dates and grades for the assignments
	will be displayed in Aplia.
	Attendance and participation (5%). You can miss 2 classes without penalty. Do
Grading (credit)	not email me with excuses for absences, except with medical documentation.
Criteria	
	97-100  points = A+; $93-96.9  points = A$ ; $90-92.9  points = A-$
	87-89.9 points = B+; 83-86.9 points = B; 80-82.9 points = B-
	77-79.9  points = C+; $73-76.9  points = C$ ; $70-72.9  points = C-$
	67-69.9 points = D+; 63-66.9 points = D; 60-62.9 points = D- (Passing grades)
	Below $60 = F$
Make-up Exams	Make-up exams may be offered under certain justified circumstances. Discuss it
Wake-up Exams	with the instructor.
Assignments	LATE SUBMISSION IS NOT ACCEPTABLE. All assignments should be
Assignments	submitted on the due day using Aplia. There will be no make-up assignments.
Extra Credit	Credit may be given to class attendance and participation in class discussion, as
Extra Credit	well as for solving problems in class.
Class Attendance	<b>EXPECTED</b> . Looking at previous experiences with this and other classes,
Class Attendance	tardiness and absence are the main contributing factors to poor grades.
	i. <u>Class begins on time.</u> Please maintain class decorum and be respectful
	towards fellow students in the class. If you have a doubt or
	misunderstanding regarding course work feel free to discuss it with me.
	ii. <u>Using your phone during class is not permitted and it is rude</u> . Keep it on
	silent at all time and away from your desk. No texting. Offenders will be
	asked to turn off their phones. If this is a recurring problem, students will
Classroom	be asked to give their phones to the instructor who will return them at the
Citizenship	end of the class session.
Citizensinp	iii. Use of your computer is allowed as long as it is not interrupting the class
	or distracting other students in the classroom. If such situation occurs, the
	first time you will be asked to turn off your computer. Recurrent offenders
	will be asked to leave the classroom.
	I encourage you to use your computer wisely. In my experience, abusing
	the use of computers during class time results in unsatisfactory final
	grades.

	iv. <u>Use of tablets is allowed</u> , as long as they are used to read the textbook, or
	to take class notes.
	v. <u>These rules will be enforced.</u>
	For help you succeed in the class, the following resources are available:
	Your instructor, the teaching assistant assigned to this class, JSOM Statistics and
0 114 14	Math Lab (JSOM 2.414), the Student Success Center (MC1.302), the Student
Special Assistance	Counseling Center (SSB 4.600) and the New Student Programs Office (SSB
	3.600) among other resources.

#### TENTATIVE CALENDAR & ASSIGNMENTS

08/22/2016 - 12/15/2016

Room: JSOM 12.202; Day & Time: M/W 1 – 2:15 pm.

Week/Dates	Reading Assignments, Chapters to be Covered
	Introduction to the course
August 22, 24	Chapter 1: Data and Statistics, Instructions for Aplia registration.
August 29,31	Chapter 3: Descriptive Statistics: Numerical Measures
September 5	Labor Day – no class
September 7	Chapter 3: Descriptive Statistics: Numerical Measures (continuation)
September 12, 14, 19	Chapter 4: Introduction to Probability
September 21	EXAM 1: Chapters 1, 3-4*
September 26, 28	Chapter 5: Discrete Probability Distribution
October 3, 5	Chapter 6: Continuous Probability Distributions
October 10, 12, 17	Chapter 7: Sampling and Sampling Distributions
October 19, 24	Chapter 8: Interval Estimation
October 26	EXAM 2: Chapters 5-8*
November 2, 7	Chapter 9: Hypothesis Tests
November 9,14	Chapter 13: Experimental Design and Analysis of Variance
November 16	Chapter 14: Simple Linear Regression
November 21, 23	Fall Break – no class
November 28, 30	Chapter 14: Simple Linear Regression (continuation)
December 5	Chapter 15: Multiple Linear Regression
December 7	EXAM 3: Chapters 9, 13-15*

<sup>\*</sup>On exam day you need to bring: Hand-written formula-sheet allowed (half of letter size page, one side) turn in with the exam. Write your name on it. Calculator required. Students are not allowed to share calculators nor to use cell phone for calculations, so bring your own.

### **GENERAL INFORMATION**

Student Conduct and Discipline	The University of Texas System and The University of Texas at Dallas have rules and regulations for the orderly and efficient conduct of their business. It is the responsibility of each student and each student organization to be knowledgeable about the rules and regulations which govern student conduct and activities. General information on student conduct and discipline is contained in the UTD publication, <i>A to Z Guide</i> , which is provided to all registered students each academic year.
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The University of Texas at Dallas administers student discipline within the procedures of recognized and established due process. Procedures are defined and described in the Rules and Regulations, Board of Regents, The University of Texas System, Part 1, Chapter VI, Section 3, and in Title V, Rules on Student Services and Activities of the university's *Handbook of Operating Procedures*. Copies of these rules and regulations are available to students in the Office of the Dean of Students, where staff members are available to assist students in interpreting the rules and regulations (SU 1.602, 972/883-6391). A student at the university neither loses the rights nor escapes the responsibilities of citizenship. He or she is expected to obey federal, state, and local laws as well as the Regents' Rules, university regulations, and administrative rules. Students are subject to discipline for violating the standards of conduct whether such conduct takes place on or off campus, or whether civil or criminal penalties are also imposed for such conduct. The faculty expects from its students a high level of responsibility and academic honesty. Because the value of an academic degree depends upon the absolute integrity of the work done by the student for that degree, it is imperative that a student demonstrates a high standard of individual honor in his or her scholastic work. Scholastic dishonesty includes, but is not limited to, statements, acts or omissions related to applications for enrollment or the award of a degree, and/or the submission as one's own work or material that is not one's own. As a general rule, scholastic Academic dishonesty involves one of the following acts: cheating, plagiarism, collusion and/or **Integrity** falsifying academic records. Students suspected of academic dishonesty are subject to disciplinary proceedings. Plagiarism, especially from the web, from portions of papers for other classes, and from any other source is unacceptable and will be dealt with under the university's policy on plagiarism (see general catalog for details). This course will use the resources of turnitin.com, which searches the web for possible plagiarism and is over 90% effective. The University of Texas at Dallas recognizes the value and efficiency of communication between faculty/staff and students through electronic mail. At the same time, email raises some issues concerning security and the identity of each individual in an email exchange. The university encourages all official student email correspondence be sent only to a student's U.T. Dallas email address and that faculty and staff consider email from students official only if it originates from a UTD **Email Use** student account. This allows the university to maintain a high degree of confidence in the identity of all individual corresponding and the security of the transmitted information. UTD furnishes each student with a free email account that is to be used in all communication with university personnel. The Department of Information Resources at U.T. Dallas provides a method for students to have their U.T. Dallas mail forwarded to other accounts. The administration of this institution has set deadlines for withdrawal of any collegelevel courses. These dates and times are published in that semester's course catalog. Administration procedures must be followed. It is the student's responsibility to Withdrawal handle withdrawal requirements from any class. In other words, I cannot drop or from Class withdraw any student. You must do the proper paperwork to ensure that you will not receive a final grade of "F" in a course if you choose not to attend the class once you are enrolled.

Procedures for student grievances are found in Title V, Rules on Student Services and Activities, of the university's Handbook of Operating Procedures.  In attempting to resolve any student grievance regarding grades, evaluations, or other fulfillments of academic responsibility, it is the obligation of the student first to make a serious effort to resolve the matter with the instructor, supervisor, administrator, or committee with whom the grievance originates (hereafter called "the respondent"). Individual faculty members retain primary responsibility for assigning grades and evaluations. If the matter cannot be resolved at that level, the grievance must be resolved used to the school Dean. If the matter is not resolved by the written response provided by the respondent, the student may make a written appeal to the Dean of Graduate or Undergraduate Education, and the deal will appoint and convene an Academic Appeals Panel. The decision of the Academic Appeals Panel is final. The results of the academic appeals process will be distributed to all involved parties. Copies of these rules and regulations are available to sasist students in the Office of the Dean of Students, where staff members are available to assist students in interpreting the rules and regulations.  As per university policy, incomplete grades will be granted only for work unavoidably missed at the semester's end and only if 70% of the course work has been completed. An incomplete grade is not submitted by the specified deadline, the incomplete grade is changed automatically to a grade of E.  The goal of Student AccessAbility is to provide students with disabilities educational opportunities equal to those of their non-disabled peers. Student AccessAbility services is located in room SSB 3.200 Office hours are Monday through Thursday, 8 am to 6 pm and Friday, 8 am to 5 pm  The contact information for the Office of Student AccessAbility:  The University of Texas at Dallas, SSB 3.200  studentaccess@utdallas.edu (972) 883-2098 (voice or TTY)  Esse		
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<b>Holy Days</b> activities for the travel to and observance of a religious holy day for a religion whose	Holy Days	activities for the travel to and observance of a religious holy day for a religion whose

	places of worship are exempt from property tax under Section 11.20, Tax Code,
	Texas Code Annotated.
	The student is encouraged to notify the instructor or activity sponsor as soon as
	possible regarding the absence, preferably in advance of the assignment. The student,
	so excused, will be allowed to take the exam or complete the assignment within a
	reasonable time after the absence: a period equal to the length of the absence, up to a
	maximum of one week. A student who notifies the instructor and completes any
	missed exam or assignment may not be penalized for the absence. A student who fails
	to complete the exam or assignment within the prescribed period may receive a failing
	grade for that exam or assignment.
	If a student or an instructor disagrees about the nature of the absence [i.e., for the
	purpose of observing a religious holy day] or if there is similar disagreement about
	whether the student has been given a reasonable time to complete any missed
	assignments or examinations, either the student or the instructor may request a ruling
	from the chief executive officer of the institution, or his or her designee. The chief
	executive officer or designee must take into account the legislative intent of TEC
	51.911(b), and the student and instructor will abide by the decision of the chief
	executive officer or designee.
	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:
<b>Comet Creed</b>	
Comer creed	"As a Comet, I pledge honesty, integrity, and service in all that I do."
	112 di Comett, i presige nonestry, miestrio, una service in un una i do.
	The information contained in the following link constitutes the University's
UT Dallas	policies and procedures segment of the course syllabus.
Syllabus Policies	
and Procedures	Please go to <a href="http://go.utdallas.edu/syllabus-policies">http://go.utdallas.edu/syllabus-policies</a> for these policies.
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The descriptions and timelines contained in this syllabus are subject to change