

CourseOPRE 3333.001F
Quantitative Business AnalysisProfessorDr. Monica BrussoloTermFall 2013MeetingsMonday/Wednesday 11:30 -12:45 PM at JSOM 1.117

PROFESSOR'S CONTACT INFORMATION

Phone	972-883-4411
Office location	JSOM 3.420
Email address	monica.brussolo@utdallas.edu
Office hours	Monday 10-11 am,
	Thursday 1-3 pm, and by appointment.
Other information	E-mail is recommended for ALL communications during the semester.
	Leaving a voicemail in my office can delay response. eLearning will be used
	to post announcements, assignments and grades.
Teaching Assistant	Chao Yuan
T.A. Contact	TBA (eLearning)
Information	
TA office hours	TBA (eLearning)

GENERAL COURSE INFORMATION

	OPRE 3333 and MATH 2333 cannot both be used to fulfill degree requirements.
Pre-requisites, Co-	Prerequisite: <u>MATH 1325</u> Applied Calculus I or <u>MATH 2413</u> Differential Calculus
- /	
requisites, & other	
restrictions	The topics discussed in this course are inherently mathematical. Students are
	encouraged to explore supplementary resources early on the semester as needed.
	Provides students with the analytical tools necessary for making better management
Course Description	decisions. Students are introduced to mathematical techniques used to make
	different types of business decisions.
	Students are required to take the initiative to learn, understand and apply
	quantitative business analytics to real world business data. At the end of this course
	you should:
Learning Outcomes	• Be able to apply mathematical techniques of optimization and linear algebra
	• Be able to effectively understand and interpret analytic models and use
	them in the decision making process
	• Be able to utilize basic business analytics tools in Excel
Required Texts &	Business Analytics. Methods, Models and Decisions. J.Evans. Pearson.
-	ISBN 10: 0-13-295061-8 and ISBN 13:978-0-13-295061-9
Materials	Additional handouts will be posted in eLearning
Suggested Texts,	If you attend class regularly, the textbook, handouts and lecture notes should
Readings, & Materials	suffice!

OPRE 3333.001.13F Quantitative Business Analysis TENTATIVE CALENDAR & ASSIGNMENTS¹

08/26/2013-12/19/2013

Room: JSOM 1.117

Day & Time: M/W 11:30 – 12:45 pm.

Class Date	Material to be Covered
Aug 26	Course introduction
Aug 28	Introduction to Business Analytics – Chapter 1
Sep 2	Labor Day – no class
	Defining the problem and gathering data /
Sep 4	Analytics on Spreadsheets – Chapter 2
Sep 9	Linger Algebra, Handoute
Sep 11	Linear Algebra – Handouts
Sep 16	Linear Models –Handouts
Sep 18	Linear Models –Handouts
Sep 23	Linear Algebra Applications
Sep 25	Exam 1
	Closed book, closed notes
Sep 30	Lagrange Multipliers Handouts
Oct 2	Lagrange Multipliers –Handouts
Oct 7	Probability Review
Oct 9	Decision Analysis – Chapter 18
Oct 14	Decision Analysis – Chapter 10
Oct 16	Predictive Modeling and Analysis - Chapter 8
Oct 21	Frederive Modeling and Analysis - Chapter 8
Oct 23	Forecasting Techniques – Chapter 10
Oct 28	
	Exam 2
Oct 30	Closed book, closed notes
Nov 4	Unconstrained Linear Optimization Review - Handouts
Nov 6	Cheonstanied Eniour Optimization Review Handouts
Nov 11	Linear Optimization – Chapter 13
Nov 13	
Nov 18	Applications of Linear Optimization – Chapter 14
Nov 20	
Nov 25-30	Thanksgiving – no class this week

¹ Any changes to this schedule will be announced in class and it is the student's responsibility to keep track of them.

Dec 2	Applications of Linear Optimization – Excel Solver
Dec 4	Data Mining – Chapter 12
Dec 9	
	Exam 3
Dec 11	Closed book, closed notes

COURSE POLICIES

	3 In-class exams 25% each (75%). The exams are not cumulative.
	4 homeworks will be assigned during the semester (20%).
	Class participation and In-Class Assignments (5%).
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Grading (credit)	95 points = $A+$; 90 points = A
Criteria	$85 \text{ points} = A+, \ 90 \text{ points} = A$ $85 \text{ points} = B+; \ 80 \text{ points} = B;$
	75 points = C+; 70 points = C;
	75 points = C+; 70 points = C; 65 points = D+; 60 points = D;
	59 and below = F
	NO MAKE-UP EXAM WILL BE OFFERED, EXCEPT IN CASE OF A
Make-up Exams	
	MEDICAL EMERGENCY (PROOF REQUIRED).
	Homeworks will be posted a week in advance of their due date.
TT	LATE SUBMISSIONS ARE NOT ACCEPTABLE. All homeworks should be
Homeworks	submitted at the beginning of the class on the due day unless the instructions indicated
	they need to be delivered using eLearning. No make-up homeworks will be given, so
	plan ahead.
Extra Credit	No extra credit is available per se. However, credits may be given to class attendance
	and participation in class discussion.
Class Attendance	EXPECTED . Looking at previous experiences with this and other classes, tardiness
	and absence are the main contributing factors to poor and failing 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 be asked to
	give their phones to the instructor which will be returned at the end of the class
	session.
Classroom Citizenship	iii. <u>Use of your computer is allowed while Excel applications are discussed and as</u>
	long as it is not interrupting the class or distracting other students in the
	<u>classroom.</u> 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. The
	days scheduled for Excel applications or days announced in advance by the
	instructor, computers will be used during the second part of the session.
	Given that this is a statistics class, the material discussed will need for you to
	take notes in a conventional way most of the time. Therefore, 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 the
	class notes.
	v. <u>These rules will be enforced.</u>

	For halp with tost anyiety or time management, the following recourses are available:
Special	For help with test anxiety or time management, the following resources are available: your academic advisor, the Student Success Center (CN1.126), the Student Counseling
Assistance	Center (SSB 4.600), the New Student Programs Office (SSB 3.600), your instructor.
Assistance	University guidelines recommend that you study 2-3 hours per week for every credit
Expectation	hour in which you are enrolled. That is, University expectations suggest you spend 6-9
Expectation	hours outside of class every week on homework and studying for this course.
	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.
Student Conduct and Discipline	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 <i>Rules and Regulations, Board of Regents, The University of Texas System, Part 1, Chapter VI, Section 3</i> , and in Title V, Rules on Student Services and Activities of the university's <i>Handbook of Operating Procedures</i> . 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 demonstrate 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
Academic	one's own work or material that is not one's own. As a general rule, scholastic
Integrity	dishonesty involves one of the following acts: cheating, plagiarism, collusion and/or 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.
Email Use	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 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

Withdrawal level 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 handle from Class Mithdrawal requirements from any class. In other words, I cannot drop or withdraw any student. You must do the proper paperwork to ensure that you will not receive a fina 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 i services and Activities, of the university's Handbook of Operating Procedures. Student In attempting 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 are submited in writing to the respondent with a copy of the respondent, its student may submit a written appeal to the School Dean. If the grievance is no resolved by the School Dean's decision, the student may make a written appeal to the Dean of Graduate or Undergraduate Education, and the deal will appoint and convent an Academic Appeals Panel. The decision of the Academic Appeals Panel. The decision of the Academic Appeals Panel. Method Free oniversity 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 complete an		provides a method for students to have their UT Delles mail formulad to other
Withdrawal The administration of this institution has set deadlines for withdrawal of any college level courses. These dates and times are published in that semester's course catalog level courses. These dates and times are published in that semester's course catalog withdrawal requirements from any class. In other words, I cannot drop or withdraw any student. You must do the proper paperwork to ensure that you will not receive a fina 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 student may submit a written appeal to the School Dean. If the grievance is no resolved by the School Dean. If the grievance is no resolved by the School Dean. If the grievance is an of resolved by the School Dean. If the grievance is no of Student; Appeals Panel is final. The results of these rules and regulations are available to student sin the Office of the Dean of Graduate or Undergraduate Education, and the deal will appoint and convent 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 students in interpreting th rules and regulations. Marc		
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 submitted in writing to the respondent with a copy of the respondent's School Dean. If the matter is not resolved by the written response provided by the respondent, the student may submit a written appeal to the School Dean. If the grievance is no resolved by the School Dean's decision, 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 assist students in interpreting the rules and regulations. As per university policy, incomplete grades will be granted only for work unavoidably missed at the semsetr" s end and only if 70% of the course work has been completed An incomplete grade must be resolved within eight (8) weeks from the first day of the subsequent long semester. If the required work to complete the course and to remove the incomplete grade of Disability Services is to provide students with disabilities education opportunities equal to those of the inon-disabled peers. Disability Services is located in room 1.610 in the Student Union. Office hours are Monday and Thursday, 8:30 a.m. to 5:30 p.m.; Tuesday and Wednesday, 8:30 a.m. to 7:30 p.m.; and Friday, 8:30 a.m. to 5:30 p.m. The contact information for the		The administration of this institution has set deadlines for withdrawal of any college- level 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 handle withdrawal requirements from any class. In other words, I cannot drop or 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
Incomplete Gradesmissed at the semester's end and only if 70% of the course work has been completed An incomplete grade must be resolved within eight (8) weeks from the first day of the subsequent long semester. If the required work to complete the course and to remove the incomplete grade is not submitted by the specified deadline, the incomplete grade is changed automatically to a grade of <u>F</u> .The goal of Disability Services is to provide students with disabilities educationa opportunities equal to those of their non-disabled peers. Disability Services is located in room 1.610 in the Student Union. Office hours are Monday and Thursday, 8:30 a.m. to 5:30 p.m.; Tuesday and Wednesday, 8:30 a.m. to 7:30 p.m.; and Friday, 8:30 a.m. to 5:30 p.m.Disability ServicesThe contact information for the Office of Student AccessAbility: The University of Texas at Dallas, SSB 3.200 PO Box 830688 Richardson, Texas 75083-0688 (972) 883-2098 (voice or TTY)Essentially, the law requires that colleges and universities make those reasonable adjustments necessary to eliminate discrimination on the basis of disability. For example, it may be necessary to remove classroom prohibitions against tape recorders	Grievance	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 submitted in writing to the respondent with a copy of the respondent's School Dean. If the matter is not resolved by the written response provided by the respondent, the student may submit a written appeal to the School Dean. If the grievance is not resolved by the School Dean's decision, 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 assist students in interpreting the
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assignment requirement may be substituted (for example, a research paper versus ar	•	 The goal of Disability Services is to provide students with disabilities educational opportunities equal to those of their non-disabled peers. Disability Services is located in room 1.610 in the Student Union. Office hours are Monday and Thursday, 8:30 a.m. to 6:30 p.m.; Tuesday and Wednesday, 8:30 a.m. to 7:30 p.m.; and Friday, 8:30 a.m. to 5:30 p.m. The contact information for the Office of Student AccessAbility: The University of Texas at Dallas, SSB 3.200 PO Box 830688 Richardson, Texas 75083-0688 (972) 883-2098 (voice or TTY) Essentially, the law requires that colleges and universities make those reasonable

	or university may need to provide special services such as registration, note-taking, or
	mobility assistance.
	It is the student's responsibility to notify his or her professors of the need for such an
	accommodation. Disability Services provides students with letters to present to faculty
	members to verify that the student has a disability and needs accommodations.
	Individuals requiring special accommodation should contact the professor after class or
	during office hours.
	The University of Texas at Dallas will excuse a student from class or other required
	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
Religious	exam or assignment may not be penalized for the absence. A student who fails to
Holy Days	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.
	Off-campus, out-of-state, and foreign instruction and activities are subject to state law
Off-Campus	and University policies and procedures regarding travel and risk-related activities.
Instruction and	Information regarding these rules and regulations may be found at
Course Activities	http://www.utdallas.edu/BusinessAffairs/Travel_Risk_Activities.htm. Additional
	information is available from the office of the school dean.

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