

OPRE 3333.004

CourseOFRE 3535.004
Quantitative Business AnalysisProfessorDr. Athena AlimirzaeiTermFall 2015MeetingsTues/Thurs 2:30-3:45 PM

PROFESSOR'S CONTACT INFORMATION

Phone	972.883.5901
Office location	JSOM 3.225
Email address	athena.alimirzaei@utdallas.edu
Office hours	Tuesday 4:30 pm - 5:30 pm, Thursday 4:30-5:30 pm
	E-mail is recommended for ALL communications during the semester.
Other information	Leaving a voicemail in my office can delay response. eLearning will be used
	to post announcements, assignments and grades.
Teaching Assistant	Yang Bo
T.A. Contact	yxb120630@utdallas.edu
Information	Office MC 1.406
TA office hours	Wed 2:00 pm – 4:00 pm

GENERAL COURSE INFORMATION

	OPRE 3333 and MATH 2333 cannot both be used to fulfill degree requirements.
Pre-requisites, Co-	Prerequisite: MATH 1325 Applied Calculus I or MATH 2413 Differential Calculus
requisites, & other	or MATH 2417 Calculus I).
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.
	As any quantitative 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.
	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
Learning Outcomes	you should:
	 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
	Introduction to Data Analysis: OPRE 3333: Quantitative Business, 1 st . ed. Cengage
Recommended Texts	Camm/Fry/Anderson/Sweeney/Williams, <u>ISBN-10: 1-305-02910-0</u> , <u>ISBN-13: 978-1-</u>
& Materials	<u>305-02910-1</u> This is a customized UTD edition so you have two options to buy it:
& Wateriais	Option 1: UTD bookstore, Option 2: http://www.cengagebrain.com/course/site.html?id=1-
	108PMGZ Additional material such as handouts and slides will be posted in eLearning
	Though this syllabus is intended to be a guide for our course, I reserve the right to
Syllabus Changes	modify any of its contents throughout the semester if necessary. Any changes will
	be discussed in class and posted immediately on eLearning 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.
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Tentative Schedule

The following is a tentative schedule, which will be followed as closely as possible. However, should any changes become necessary; I will announce it in the class or via e-Learning. It is your responsibility to keep track of announcements regarding changes to schedule.

Dates	Material to be Covered
Aug 25, 27	Course introduction
	Systems of Linear Equations – Handouts (Chapter 1)
Sep 1, 3	Systems of Linear Equations – Handouts (Chapter 1)
Sep 8, 10	Matrices – Handouts (Chapter 2)
Sep 8, 10	Assignment 1 – due on 10
Sep 15,17	Matrices – Handouts (Chapter 2)
Son 22-24	Determinant Function – Handouts (Chapter 3)
Sep 22, 24	Assignment 2 – due on 24
Sep 29	Exam Review
Oct 1	Exam 1 Closed book, closed notes
	Introduction to Business Analytics (Chapter 1)
Oct 6, 8	Data Visualization (Chapter 3)
	Time Series Analysis and Forecasting (Chapter 5)
	Time Series Analysis and Forecasting (Chapter 5)
Oct 13, 15	Linear Optimization Models (Chapter 8)
	Assignment 3 – due on 15
Oct 20, 22	Linear Optimization Models (Chapter 8)
Oct 27	Linear Optimization Models (Chapter 8)
Oct 29	Exam Review
	Assignment 4 – due on 29
Nov 3	Exam 2 Closed book, closed notes
Nov 5,10	Transportation Models (Chapter 8)
Nov 12	Applications of Linear Optimization – Excel Solver (Chapter 8)
Nov 17, 19	Decision Analysis (Chapter 12)
NOV 17, 19	Assignment 5 – due on 19
Nov 24, 26	No Class – Fall Break
Dec 1	Exam Review Assignment 6 – due on 1
Dec 3	Exam 3 Closed book, closed notes

COURSE POLICIES

COURSE POLIC	
	3 In-class exams (Exam 1:25%, Exam 2:25%, Exam 3:20%)
	The exams are not cumulative.
	6 homework (30%). The lowest grade will be dropped.
Grading (credit)	95 points = $A+$; 90 points = A
Criteria	85 points = B +; 80 points = B ;
	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).
	LATE SUBMISSIONS ARE NOT ACCEPTABLE. All homework should be
Homeworks	submitted at the beginning of the class on the due day. No make-up homework will be
Homeworks	given, so plan ahead.
	No extra credit is available per se. However, credits may be given for active
Extra Credit	
	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.
Classes	iii. Use of your computer is allowed as long as it is not interrupting the class or
Classroom	distracting other students in the classroom. If such situation occurs, the first
Citizenship	time you will be asked to turn off your computer. Recurrent offenders will be
	asked to leave the classroom.
	iv. Given that this is a quantitative 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.
	v. <u>Use of tablets is allowed</u> , as long as they are used to read the textbook, or the
	class notes.
	vi. These rules will be enforced.
	For help with test anxiety or time management, the following resources are available:
Special	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.
110010000000000000000000000000000000000	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
Student Conduct and Discipline	the rules and regulations which govern student conduct and activities. General
	information on student conduct and discipline is contained in the UTD publication, A to
	Z Guide, which is provided to all registered students each academic year.
	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 <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 benefity. Because the value of an academic degree degree degree the sheelpte integrity.
	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
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 Use	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
	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 college-
	level courses. These dates and times are published in that semester's course catalog.
Withdrawal	Administration procedures must be followed. It is the student's responsibility to handle
from Class	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
	Activities, of the university's Handbook of Operating Procedures.
Student	
Grievance	In attempting to resolve any student grievance regarding grades, evaluations, or other
Procedures	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").

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	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 students in the Office of the Dean of Students, where staff members are available to assist students in interpreting the rules and regulations.
Incomplete Grades	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 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 \underline{F} .
Disability Services	 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 adjustments necessary to eliminate discrimination on the basis of disability. For example, it may be necessary to remove classroom prohibitions against tape recorders or animals (in the case of dog guides) for students who are blind. Occasionally an assignment requirement may be substituted (for example, a research paper versus an oral presentation for a student who is hearing impaired). Classes enrolled students with mobility impairments may have to be rescheduled in accessible facilities. The college 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.
Religious Holy Days	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 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.
	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.