

Course Information

<i>Course Number/Section</i>	OPRE 3333-501
<i>Course Title</i>	Quantitative Business Analysis
<i>Term</i>	Spring 2020
<i>Location</i>	Jindal School of Management Building
<i>Room</i>	SOM 1.117
<i>Time</i>	Th 7:00PM - 9:45PM

Professor Contact Information

<i>Professor</i>	Reza Sajjadi
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<i>Other Phone</i>	
<i>Email Address</i>	reza.sajjadi@utdallas.edu
<i>Office Location</i>	
<i>Office Hours</i>	by appointment
<i>TA Information</i>	Jaishree Ramakrishnan
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About the Instructor

Reza Sajjadi is a part time Lecturer in the Jindal School of Management. He teaches undergraduate and graduate courses in Operations and Supply Chain Management. He has +10 years' experience working in industry and currently works for PepsiCo.

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

MATH 1325 or MATH 2413 or MATH 2417

Course Description

Provides students with the analytical tools necessary for making better management decisions. Students are introduced to mathematical techniques used to make different types of business decisions.

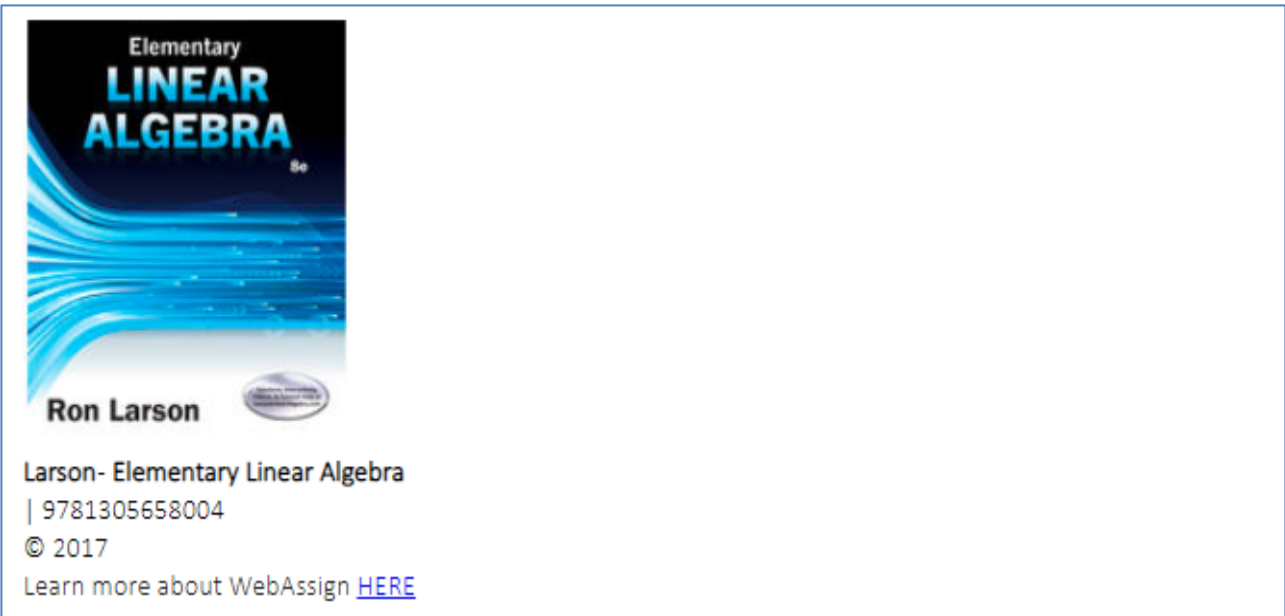
Student Learning Objectives/Outcomes

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:

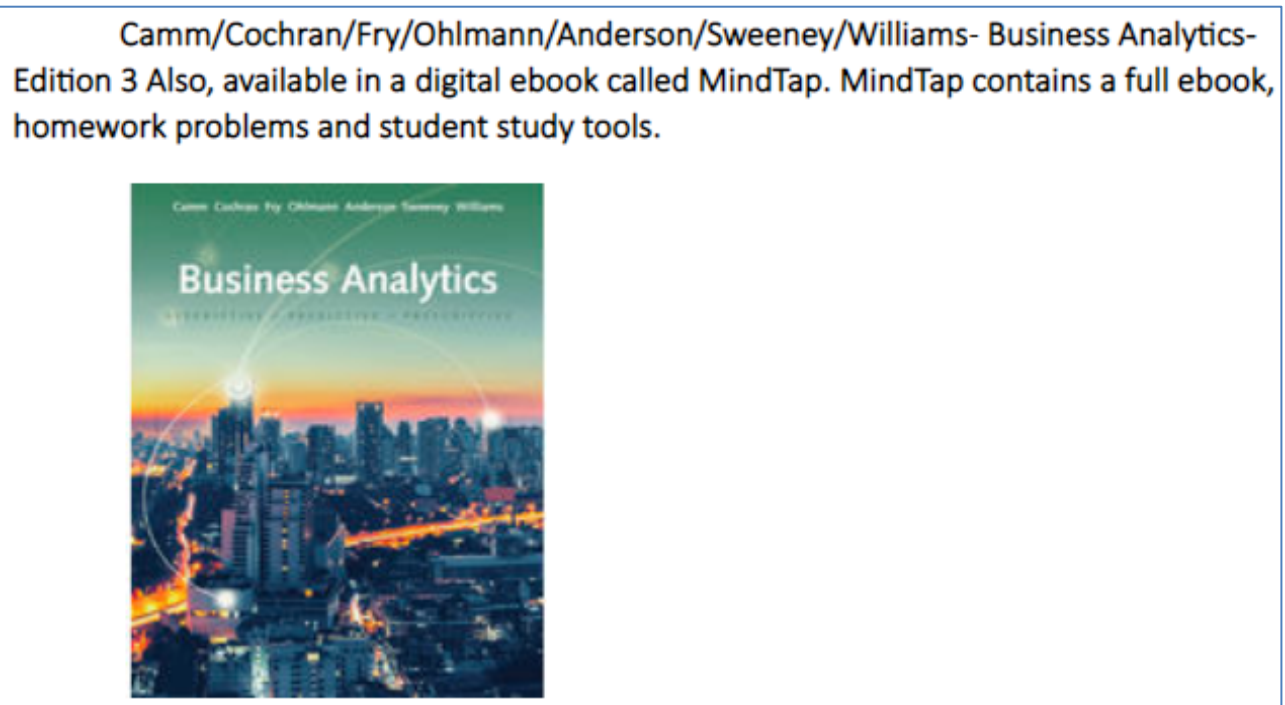
- Be able to apply mathematical techniques of optimization and linear algebra
- Be able to effectively understand and interpret analytic models and use them in the decision-making process
- Be able to utilize basic business analytics tools in Excel

Required Textbooks and Materials

1. Elementary Linear Algebra (8th edition) – Larson



2. Essentials of Business Analytics (3rd edition) Camm/Fry/Anderson/Sweeney/Williams



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

Cengage course key: MTPNZNLNFZMR

<https://www.cengage.com/dashboard/#/course-confirmation/MTPN6DGNFFK/initial-course-confirmation>

MindTap: <https://www.cengage.com/training/mindtap>

Software: Microsoft Office Excel

This course uses a laptop, eLearning, Internet access, Microsoft Excel 2007 or higher (no trial versions), with Data Analysis Activated (this comes with Excel). If you are using a Mac, it is recommended that you install a Windows Virtual machine, such as Parallel Desktop, or VMWare Fusion, which will then allow the use of Windows within the Mac Operating System (consult with JSOM technology helpdesk staff on second floor).

The Statistics and Math lab

Students enrolled in OPRE 3333 or OPRE 3360 may use the lab in room 2.414 from 10AM – 6PM, Monday thru Friday.

Course Policies

Makeup Exams

Students are expected to take exams on the scheduled dates. Make up exams will be available due to conflicts with approved university events or in the case of serious illness.

Extra Credit

N/A

Quiz

There would be 4-8 quizzes during the semester. The planned quiz dates are provided in this syllabus (see Academic Calendar table below); however, the exact date depends on time availability and will be decided later. **There would not be any makeup for a missing quiz.**

Late Work

N/A

Special Assignments

N/A

Class Participation

At U.T.A., each faculty member is free to develop his or her own methods of evaluating students' academic performance, which includes establishing course-specific policies on attendance. I will be taking attendance randomly during the semester. Please note that if you are absent, you run the risk of missing extra credit opportunities, quizzes and in-class assignments, which will be randomly given during the semester - no make-ups are permitted for these things if a student is absent. I communicate with students in e-learning as needed. You should check for new e-learning messages, announcements and discussion posts every day.

Students are required to login regularly to the online class site.

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

<http://www.utdallas.edu/elearning/students/getting-started.html#techreqs> on the Getting Started with eLearning webpage <http://www.utdallas.edu/elearning/students/getting-started.html>.

Course Access and Navigation

The course can be accessed using the UT Dallas NetID account at: <https://elearning.utdallas.edu>. Please see the course access and navigation <http://www.utdallas.edu/elearning/students/getting-started.html#courseaccessandnav> section of the site for more information.

To become familiar with the eLearning tool, please see the Student eLearning Tutorials

<http://www.utdallas.edu/elearning/students/eLearningTutorialsStudents.html>.

UT Dallas provides eLearning technical support 24 hours a day/7 days a week. The eLearning Support Center

<http://www.utdallas.edu/elearninghelp> services include 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 eLearning Tutorials webpage <http://www.utdallas.edu/elearning/students/eLearningTutorialsStudents.html> 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

N/A

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 which 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 <http://www.utdallas.edu/elearninghelp>. The instructor and the eLearning Help Desk will work with the student to resolve any issues at the earliest possible time.

Academic Calendar

Date	Event	Topic - Plan	Quiz
16-Jan	System of Linear Equations	Chapter 1 - Larson	
16-Jan	System of Linear Equations	Chapter 1 - Larson	
23-Jan	System of Linear Equations & Matrices	Chapter 2 - Larson	
23-Jan	System of Linear Equations & Matrices	Chapter 2 - Larson	
30-Jan	Matrices	Chapter 2 - Larson	Quiz1(Ch1)
30-Jan	Matrices	Chapter 2 - Larson	
6-Feb	Matrices	Chapter 3 - Larson	quiz2(Ch2)
6-Feb	Matrices	Chapter 3 - Larson	
13-Feb	Determinants	Chapter 3 - Larson	quiz3(Ch3)
13-Feb	Determinants	Chapter 3 - Larson	
20-Feb	Determinants	Chapter 3 - Larson	
20-Feb	Introduction to Business Analytics	Chapter 1 - Camm	
27-Feb	Exam1: Chap 1-3		
27-Feb	Exam1: Chap 1-3		
5-Mar	Introduction to Business Analytics	Chapter 1 - Camm	
5-Mar	Introduction to Business Analytics	Chapter 1 - Camm	
12-Mar	Time Series Analysis and Forecasting	Chapter 8 - Camm	quiz4 (Ch1&3_Camm)
12-Mar	Time Series Analysis and Forecasting	Chapter 8 - Camm	
19-Mar	Spring Break - Mar 16-22 - No Class		
19-Mar	Spring Break - Mar 16-22 - No Class		
26-Mar	Extended Spring Break - Mar 23-30 - No Class		
26-Mar	Extended Spring Break - Mar 23-30 - No Class		
2-Apr	Data Visualization -Time Series Analysis and Forecasting	Chapter 3 & 8 - Camm	
2-Apr	Data Visualization -Time Series Analysis and Forecasting	Chapter 3 & 8 - Camm	
9-Apr	Exam2: Chap 1,3,8_Camm	Chapter 11 - Camm	
9-Apr	Exam2: Chap 1,3,8_Camm	Chapter 11 - Camm	
16-Apr	Linear Optimization Models	Chapter 11 - Camm	
16-Apr	Linear Optimization Models	Chapter 11 - Camm	
23-Apr	Integer Linear Optimization Models	Chapter 12 - Camm	Quiz5(Ch11)
23-Apr	Integer Linear Optimization Models	Chapter 12 - Camm	
30-Apr	Exam3: Chap 11-12		
30-Apr	Exam3: Chap 11-12		

***Upon time availability up to two chapters will be added to the syllabus.**

“Please note that the above schedule is simply a guide for the course and changes may occur. As the instructor for this course, I reserve the right to adjust this schedule in any way that serves the educational needs of the students enrolled in this course. Should any changes become necessary, you will be notified in the class or via eLearning. It is your responsibility to keep track of announcements regarding changes to this schedule.” - Reza Sajjadi

Proctored Final Exam Procedures

If your course has a proctored exam requirement, please see the Student Success Center Proctored Exam website http://www.utdallas.edu/studentsuccess/testingcenter/proctored_exams/index.html to make arrangements.

Grading Policy

Your professor will award + grades but not – grades at the end of the semester. For example, a student may receive a B+ or B but not a B-. Your instructor will only change a final letter grade if a calculation error occurs. Therefore, your instructor asks students to NOT request a final letter grade change (unless a calculation error has occurred) or any special consideration or additional extra credit assignments.

Weights

Exam 1	25	%
Exam 2	25	%
Exam 3	25	%
In class Quizzes	25	%
Total	100	100%

Grading Scale

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

Assignments

None

Group Projects

None

Assignment submission instructions

None

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.”

UT Dallas Syllabus Policies and Procedures

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

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

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